

FORM 3

APPLICATION FOR PERMIT TO DRILL

6. SURFACE:
Fee

7. IF INDIAN, ALLOTTEE OR TRIBE NAME:

8. UNIT or CA AGREEMENT NAME:

Mckenna 1-11

PHONE NUMBER:
(303) 868-6612

Wildcat
11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:

San Juan

17. NUMBER OF ACRES ASSIGNED TO THIS WELL:

5809579

30 Days

24.

25.

~~CONFIDENTIAL~~

☒ COMPLETE DRILLING PLAN

☒ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

DATE **3/20/2006**

APPROVAL:

DIV. OF OIL, GAS & MINING

T29S, R24E, S.L.B.&M.

CABOT OIL AND GAS

WELL LOCATION, MCKENNA 1-11,
LOCATED AS SHOWN IN THE SE 1/4
NW 1/4 OF SECTION 11, T29S, R24E,
S.L.B.&M. SAN JUAN COUNTY, UTAH.

NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS
MADE BY ME OR UNDER MY SUPERVISION AND THAT
THE SAME ARE TRUE AND CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF.

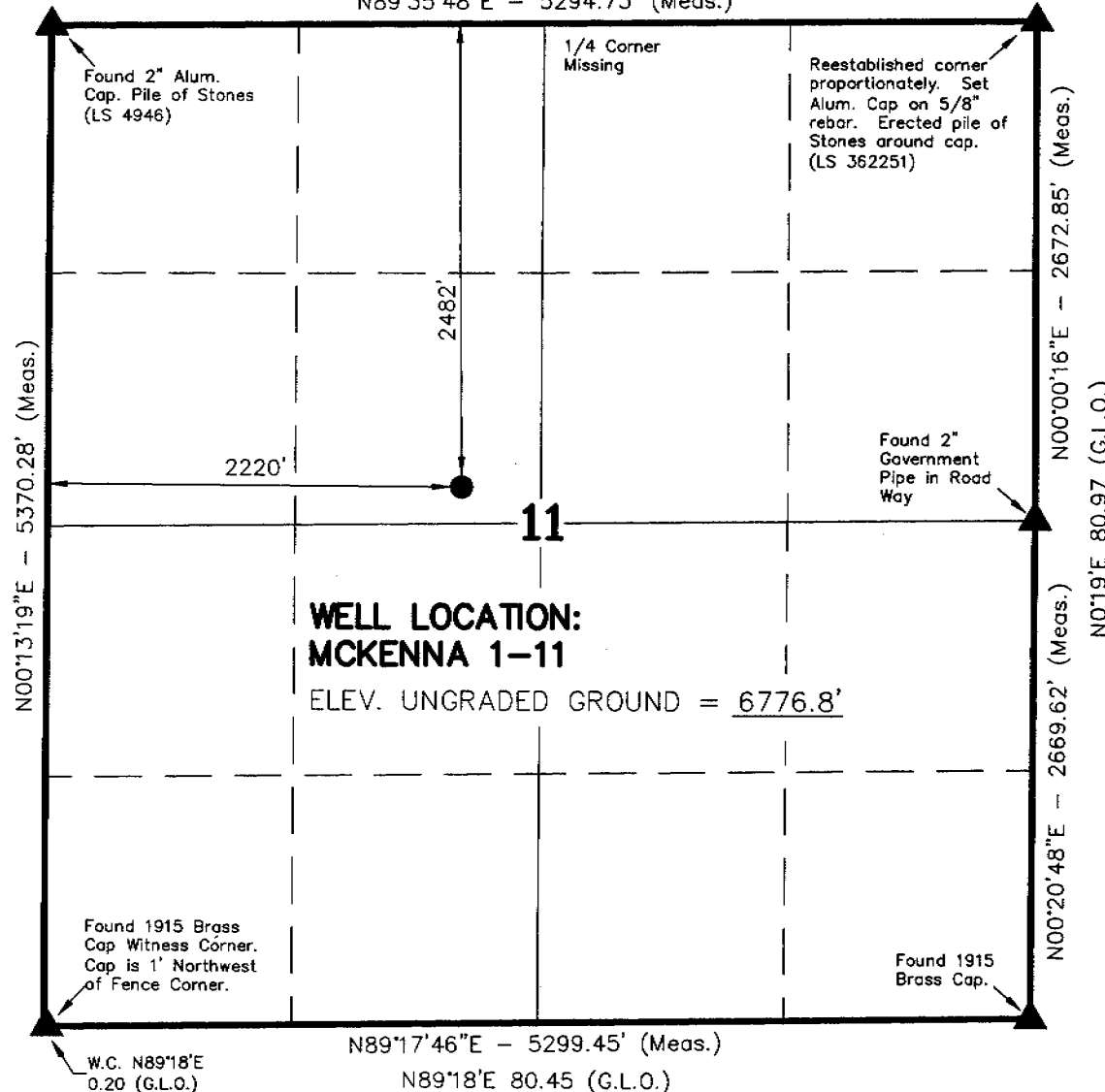
REGISTERED LAND SURVEYOR
No. 362251
KOLBY R. KAY
STATE OF UTAH

TIMBERLINE LAND SURVEYING, INC.

38 WEST 100 NORTH. - VERNAL, UTAH 84078
(435) 789-1365

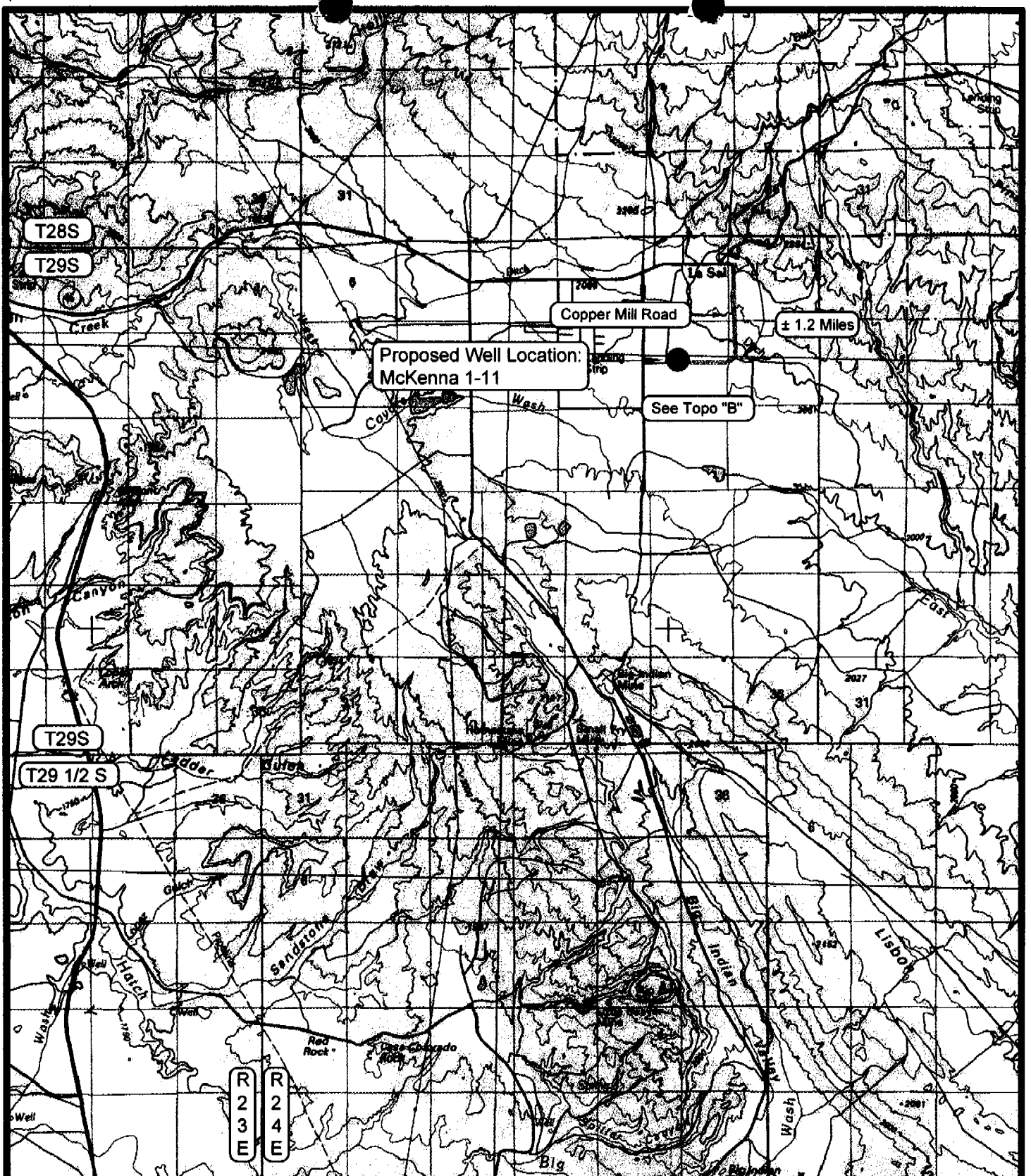
DATE SURVEYED: 02-13-06	SURVEYED BY: K.R.K.	SHEET 2 OF 10
DATE DRAWN: 02-14-06	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised:	

80.10 (G.L.O.)
N89°35'48"E - 5294.73' (Meas.)



▲ = SECTION CORNERS LOCATED
BASIS OF ELEVATION IS BENCH MARK G127 1934
LOCATED IN THE WEST 1/2 OF SECTION 3, T29S,
R24E, S.L.B.&M. THE ELEVATION OF THIS BENCH
MARK IS SHOWN ON THE LA SAL WEST, UTAH 7.5
MIN. QUADRANGLE AS BEING 6844'.

MCKENNA 1-11
(Surface Location) NAD 83
LATITUDE = 38° 17' 45.504"
LONGITUDE = 109° 14' 55.311"



LEGEND

- = PROPOSED WELL LOCATION
- = EXISTING ROAD
- - - = EXISTING ROAD (TO BE IMPROVED)
- = PROPOSED ACCESS ROAD

TOPOGRAPHIC MAP "A"

SCALE: 1:100,000

DRAWN BY: BJZ

DATE SURVEYED: 2-13-06

DATE DRAWN: 2-14-06

REVISED:

CABOT OIL AND GAS

McKenna 1-11
SECTION 11 , T29S, R24E, S.L.B.&M.
2482' FNL & 2220' FWL

Timberline Land Surveying, Inc.

38 West 100 North Vernal, Utah 84078
 (435) 789-1365

SHEET

7

OF 10

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO: Fee	6. SURFACE: Fee
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
2. NAME OF OPERATOR: Cabot Oil & Gas Corporation		8. UNIT or CA AGREEMENT NAME:	
3. ADDRESS OF OPERATOR: 600 17th st. Suite 900N CITY Denver STATE CO ZIP 80202		PHONE NUMBER: (303) 868-6612	9. WELL NAME and NUMBER: Mckenna 1-11
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2,482' FNL & 2,220' FWL AT PROPOSED PRODUCING ZONE: Same as above		10. FIELD AND POOL, OR WILDCAT: Wildcat Wildcat	
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SE NW 11 29S 24E		12. COUNTY: San Juan	
13. STATE: UTAH		14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 2.3 miles south of La Sal	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 2,220'	16. NUMBER OF ACRES IN LEASE:	17. NUMBER OF ACRES ASSIGNED TO THIS WELL:	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 3,800'	19. PROPOSED DEPTH: 10,800	20. BOND DESCRIPTION: 5809579	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 6,777' GR	22. APPROXIMATE DATE WORK WILL START: 6/25/2006	23. ESTIMATED DURATION: 30 Days	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12 1/4	9 5/8 J-55 36#	2,900	Premium Lite 440 sx 2.28 cf/sx 11.0 PPG
		3,100	Premium Lite III 450 sx 1.43 cf/sx 15.6 PPG
8 3/4	7 P-110 17#	10,800	Premium Lite HS 825 sx 2.02 cf/sx 15.6 PPG

ATTACHMENTS

CONFIDENTIAL

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- | | |
|--|---|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input checked="" type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) William A. Ryan TITLE Agent
SIGNATURE *William A. Ryan* DATE 3/20/2006

(This space for State use only)

API NUMBER ASSIGNED: 43-037-31846

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 06-07-2006

By: *[Signature]*

(See Instructions on Reverse Side)

RECEIVED

APR 12 2006

DIV. OF OIL, GAS & MINING

T29S, R24E, S.L.B.&M.

CABOT OIL AND GAS

WELL LOCATION, MCKENNA 1-11,
LOCATED AS SHOWN IN THE SE 1/4
NW 1/4 OF SECTION 11, T29S, R24E,
S.L.B.&M. SAN JUAN COUNTY, UTAH.

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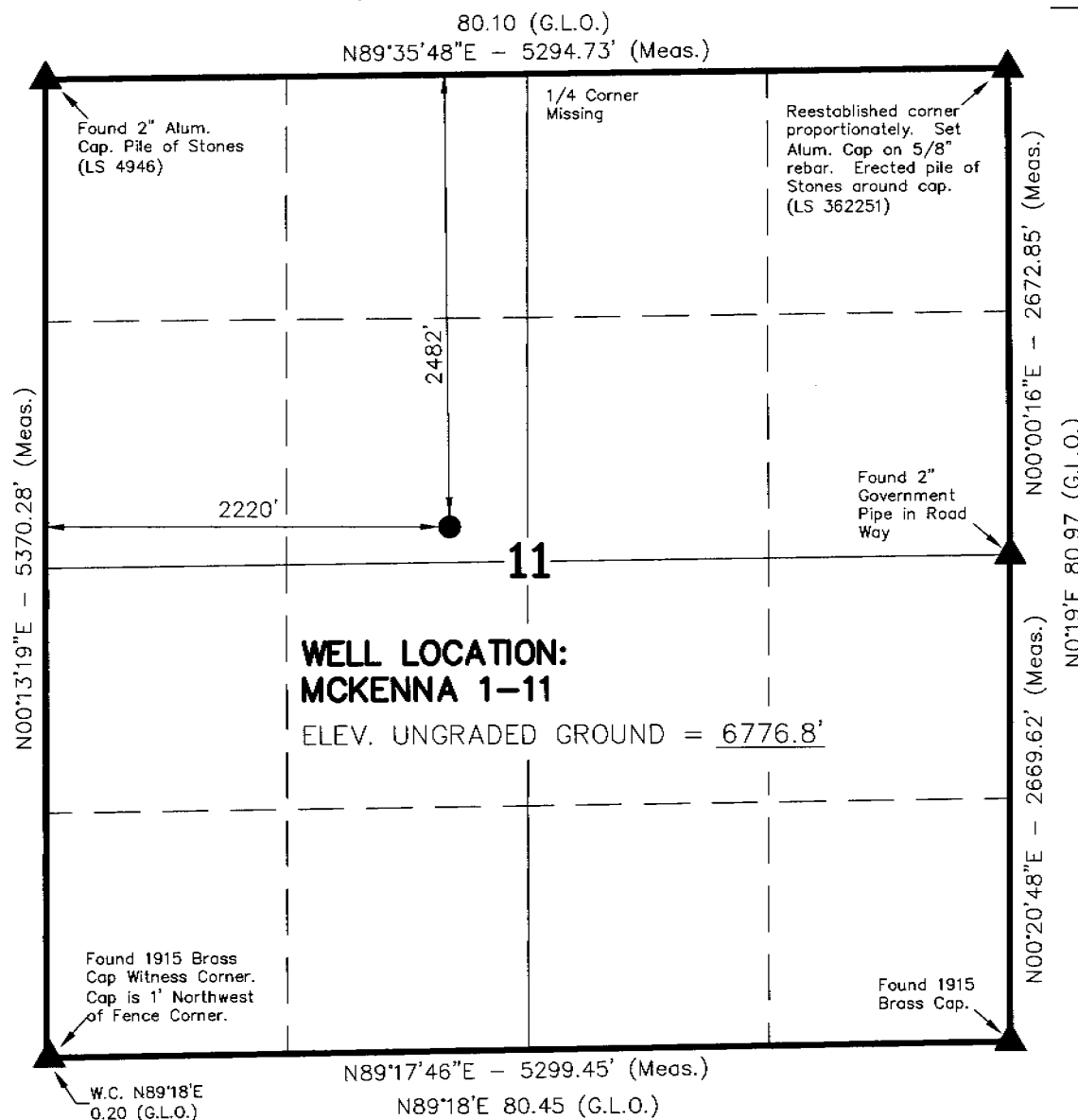
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REGISTERED LAND SURVEYOR
No. 362251
KOLBY R.
KAY
STATE OF UTAH

TIMBERLINE LAND SURVEYING, INC.

38 WEST 100 NORTH. - VERNAL, UTAH 84078
(435) 789-1365

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MCKENNA 1-11
(Surface Location) NAD 83
LATITUDE = 38° 17' 45.504"
LONGITUDE = 109° 14' 55.311"

AFFIDAVIT OF SURFACE OWNER USE AGREEMENT

Cabot Oil and Gas has in place, agreements with the surface owners of the following leases. Cabot Oil and Gas is the operator and makes this certification that the agreements provide for management of the Fee surface lands under development.

Section 11, Township 29 South, Range 24 East

Redd-Agri

Charles H Redd, Jr.

PO BOX 278

La Sal, UT 84530

435-686-2221


William A Ryan, Agent

Rocky Mountain Consulting

290 S. 800 E

Vernal, UT 84078

435-789-0968

Ten Point Plan

CABOT OIL & GAS CORPORATION

Mckenna 1-11

Surface Location SE ¼ NW ¼, Section 11, T. 29S., R. 24E.

1. Surface Formation

Alluvium

2. Estimated Formation Tops and Datum:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Alluvium	Surface	+6,777' G.L.
Dakota	10	+6,767'
Morrison	73	+6,704'
Entrada	303	+6,474'
Navajo	473	+6,304'
Kayenta	1,663	+5,114'
Wingate	1,900	+4,877'
Chinle	2,298	+4,479'
Cutler	3,173	+3,604'
Hktl 5	8,883	-2,106'
Hktl 4	9,253	-2,476'
Hktl 3	9,495	-2,718'
Hktl 2	9,793	-3,016'
HKTL 2 shale	9,871	-3,094'
HKTL 1	9,937	-3,160'
HKTL 1 shale	10,190	-3,413'
U Ismay	10,230	-3,453'
Hovenweep shale	10,368	-3,591'
L Ismay	10,430	-3,653'
Gothic shale	10,496	-3,719'
Desert Creek	10,600	-3,823'
Salt	10,611	-3,834'
TD	10,800	-4,023'

3. Producing Formation Depth:

Formation objective includes the Honaker Trail and its sub-members.

Off Set Well information:

Proposed Wells:

Mckenna 2-44
Mckenna 14-14

4. Proposed Casing:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight/FT</u>	<u>Grade</u>	<u>Coupling & Tread</u>	<u>Casing Depth</u>	<u>New/Used</u>
12 1/4	9 5/8	36#	J-55	LT&C	3,100'	NEW
8 3/4	7"	17#	P-110	LT&C	T.D.	NEW

Cement Program:

The Surface Casing will be cemented to the Surface as follows:

	<u>Casing Size</u>	<u>Cement Type</u>	<u>Cement Amounts</u>	<u>Cement Yield</u>	<u>Cement Weight</u>
Lead:	9 5/8	Premium Lite	440 sx. +/-	2.28cf/sx	11.0# ppf
Tail:	9 5/8	Type III	450sx. +/-	1.43 cf/sx	15.6# ppf

Production casing will be cemented to 2,500' or higher as follows:

<u>Casing Size</u>	<u>Cement Type</u>	<u>Cement Amounts</u>	<u>Cement Yield</u>	<u>Cement Weight</u>
7"	Premium Lite HS	825 sks +/-	2.02 cf/sx	15.6# ppf

5. BOP and Pressure Containment Data:

The anticipated bottom hole pressure will be less than 3000 psi.

A 3000-psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 9 5/8" surface casing. The BOP system including the casing will be pressure tested to minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

6. Mud Program:

<u>Interval</u>	<u>Mud weight lbs./gal.</u>	<u>Viscosity Sec./OT.</u>	<u>Fluid Loss Ml/30 Mins.</u>	<u>Mud Type</u>
0-2,600'	8.4 - 8.8	28 - 32	NC	Fresh Water/Lime Sweeps
2,600'-7,500'	8.8 - 9.2	28 - 34	15 -18	LSND/KCL mud
7,500'-T.D.	9.2 - 9.5	34 - 40	6 - 8	LSND/KCL mud

7. Auxiliary Equipment

Upper Kelly cock, full opening stabbing valve, 2 ½" choke manifold and pit level indicator.

8. Testing, Coring, Sampling and Logging:

- a) Test: None are anticipated.
- b) Coring: None are anticipated.
- c) Sampling: Every 10' from 2000' to T.D.
- d) Logging:

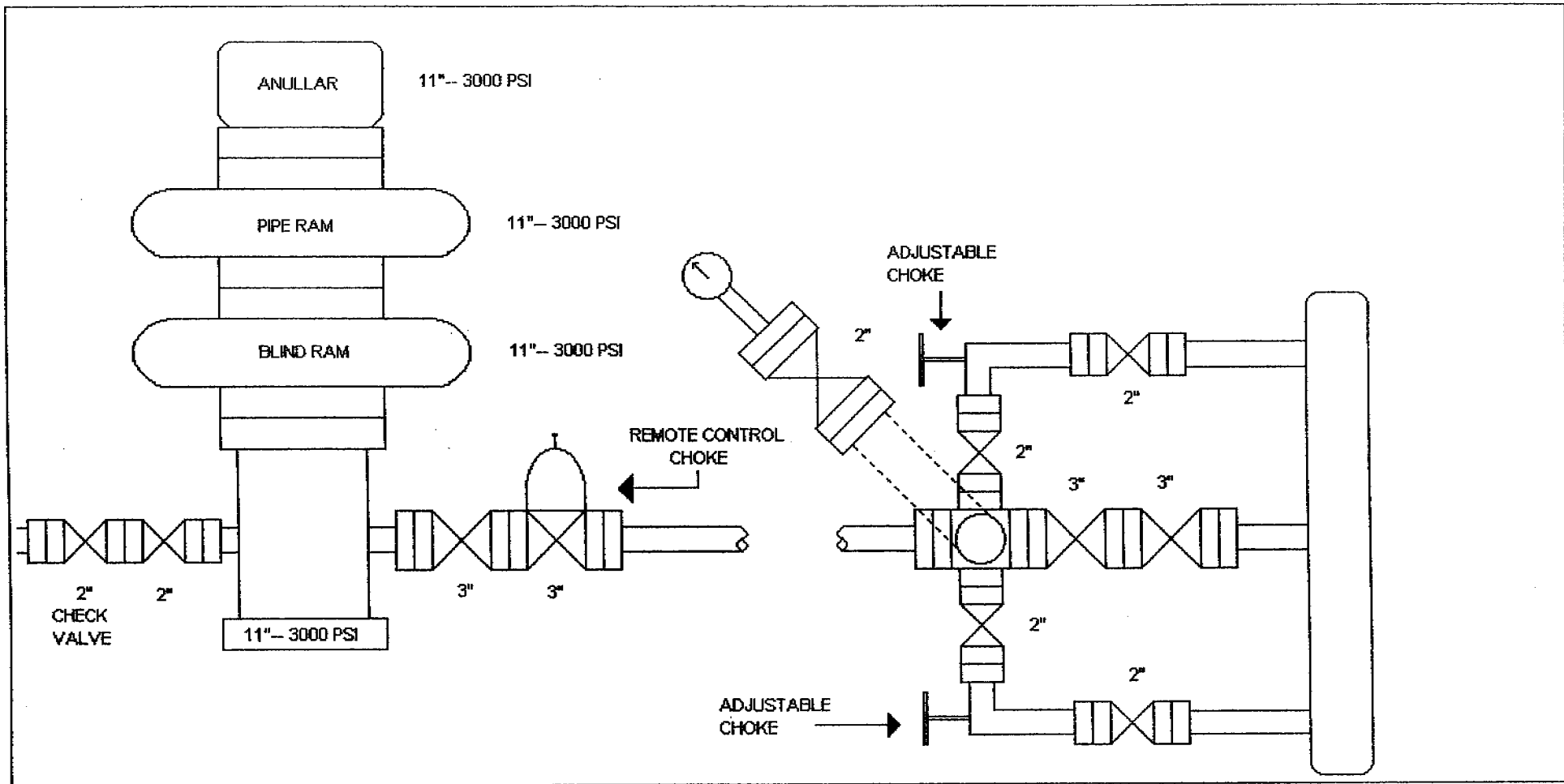
Type	Interval
Platform Express w/BHC sonic	3,100' - TD

9. Abnormalities (including sour gas):

No abnormal pressures, temperatures or other hazards are anticipated. Oil and gas shows are anticipated in the Honaker Trail Formation. Other wells drilled in the area have not encountered over pressured zones or H₂S.

10. Drilling Schedule:

The anticipated starting date is 6/25/06. Duration of operations is expected to be 30 days.



CABOT OIL AND GAS
13 POINT SURFACE USE PLAN
FOR WELL

MCKENNA 1-11

LOCATED IN SE ¼ NW ¼

SECTION 11, T.29S, R24E, S.L.B.&M.

SAN JUAN COUNTY, UTAH

LEASE NUMBER: FEE

SURFACE OWNERSHIP: FEE

1. Existing Roads:

CABOT OIL & GAS

McKenna 1-11

Section 11, T29S, R24E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM LA SAL, UTAH ALONG STATE HIGHWAY 46 APPROXIMATELY 0.4 MILES TO THE JUNCTION OF THE COPPER MILL ROAD; EXIT RIGHT AND PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION ALONG THE COPPER MILL ROAD APPROXIMATELY 1.2 MILES TO THE INTERSECTION OF THE WILCOX ROAD; EXIT RIGHT AND PROCEED IN A WESTERLY DIRECTION ALONG THE WILCOX ROAD APPROXIMATELY 0.7 MILES TO THE PROPOSED ACCESS ROAD; FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 40 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM LA SAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 2.3 MILES.

All existing roads to the proposed location are State of Utah, BLM maintained or County Class B roads. Please see the attached map for additional details.

2. Planned access road

The proposed access road will be approximately 40' of new construction on lease. The road

will be graded once per year minimum and maintained.

- | | |
|---|----------------------------------|
| A) Approximate length | 40 ft |
| B) Right of Way width | 30 ft |
| C) Running surface | 18 ft |
| D) Surface material | Native soil |
| E) Maximum grade | 5% |
| F) Fence crossing | None |
| G) Culvert | None |
| H) Turnouts | None |
| I) Major cuts and fills | None |
| J) Road Flagged | Yes |
| K) Access road surface ownership | |
| | Fee: Charles H. Redd, Jr. |
| L) All new construction on lease | Yes |
| M) Pipe line crossing | None |

Please see the attached location plat for additional details.

An off lease right-of-way will not be required.

A road encroachment application will be filed with the San Juan County Road Department.

All surface disturbances for the road and location will be within the lease boundary.

3. Location of existing wells

The following wells are located within a one-mile radius of the location site.

- | | |
|------------------------------------|----------------------|
| A) Producing well | None |
| B) Water well | None |
| C) Abandoned well | |
| | State 1-16 |
| D) Temp. abandoned well | None |
| E) Disposal well | None |
| F) Drilling /Permitted well | |
| | McKenna 14-14 |

McKenna 2-44

G) Shut in wells **None**
H) Injection well **None**

I) Monitoring or observation well **None**

Please see the attached map for additional details.

4. Location of tank batteries, production facilities and production gathering service lines.

All production facilities are to be contained within the proposed location site. Please see the attached plat plan for a typical gas well separator installation and well site piping.

All permanent (on site for more than six months or longer) structures constructed or installed will be painted an **Olive Black** color. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required paint color is **Olive Black**.

All tanks will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank in the battery. The integrity of the dike will be maintained.

All off lease storage, off lease measurement, commingling on lease or off lease, of production, will have prior written approval from the authorized officer.

If the well is capable of economic production a surface gas line will be required.

Approximately 3,570' +/- of 6" steel surface gas gathering line would be constructed on Private Lands. The line will tie into the proposed pipeline in Sec. 14, T29S, R24E. The pipeline would be strung and boomed to the south of the location. The pipeline will be buried at the land owners request.

An off lease right-of-way will not be required.

Please see the attached location diagrams for pipeline location.

The gas meter run will be located within 500' of the wellhead. The gas line will be buried or anchored down from the wellhead to the meter. Meter runs will be housed and/or fenced.

The gas meter will be calibrated and the tank strapped in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The authorized officer will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration report will be submitted to the State of Utah, Division of Oil, Gas, and Mining. All measurement facilities will conform to API (American Petroleum Institute) and AGA (American Gas Association) standards for gas and liquid hydrocarbon measurement.

5. Location and type of water supply

Water for drilling and cementing will come from a Private land owner in Section 8, T29S, R24E Permit # T-30139.

6. Source of construction materials

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. Additional road gravel or pit lining material will be obtained from private resources.

7. Methods for handling waste disposal

A) Pit construction and liners:

The reserve pit will be approximately **12 ft.** deep and most of the depth shall be below the surface of the existing ground. Please see the attached plat for details.

The reserve pit will be lined with a 16 mm liner.

The reserve pit will be used to store water for drilling. A semi-closed system will be used to drill the well. All fresh water for drilling will come from a frac tank placed on location and from the rig tank. The pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

B) Produced fluids:

Produced water will be confined to the reserve pit, or if deemed necessary, a storage tank for a period not to exceed 120 days after initial production. During the 120-day period an application for approval for permanent disposal method and location will be submitted to the authorized officer. **Evaporation may be used instead of trucking to facilitate closing and reclamation of the reserve pit. A pumping system would be used for evaporation. If contaminated water is encountered, a sample will be taken, analyzed and a report will be sent to Utah Division of Oil, Gas and Mining.**

C) Garbage:

A trash cage fabricated from expanded metal will be used to hold trash on location and will be removed to an authorized landfill location.

D) Sewage:

A portable chemical toilet will be supplied for human waste.

E) Site clean-up:

After the rig is moved off the location the well site area will be cleaned and all refuse removed.

8. Ancillary facilities

There are no ancillary facilities

planned at this time and none are foreseen for the future.

9. Well-site layout

Location dimensions are as follows:

A) Pad length	345 ft.
B) Pad width	260 ft.
C) Pit depth	12 ft.
D) Pit length	150 ft.
E) Pit width	75 ft.
F) Max cut	15.0 ft.
G) Max fill	4.3 ft.
H) Total cut yds.	7,630 cu yds
I) Pit location	North end
J) Top soil location	East & West ends
K) Access road location	South end
L) Flare Pit	corner C

Please see the attached location diagram for additional details.

All pits will be fenced according to the following minimum standards:

- A) Thirty nine inch net wire shall be used with at least one strand of wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- B) The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C) Corner posts shall be cemented

and/or braced in such a manner to keep the fence tight at all times.

- D) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 ft.
- E) All wire shall be stretched by using a stretching device before it is attached to the corner posts.

10. Plans for restoration of the surface

Prior to construction of the location, the top 6 inches of soil material will be stripped off the location and the pit area. The topsoil removed and piled will amount to approximately **1,500** cubic yards of material.

Topsoil will be stockpiled in one distinct pile. Placement of the topsoil is noted on the attached location plat. The topsoil pile from the location will be seeded as soon as the soil is stock piled with the seed mix listed. When all drilling and completion activities have been completed and the pit back-filled the topsoil from the pit area will be spread on the pit area. The pit area will be seeded when the soil has been spread. **The unused portion of the location (the area outside the dead men) will be re-contoured.**

The dirt contractor will be provided with an approved copy of the surface use plan prior to construction activities.

Changes to the drainage during the construction activities shall be

restored to its original line of flow or as near as possible when the pit is back-filled

All disturbed areas will be re-contoured to the approximate natural contours. Prior to back filling the pit the fences around the reserve pit will be removed.

The reserve pit will be reclaimed within 120 days of well completion. If the reserve pit has not dried sufficiently to allow back filling, an extension on the time requirement for back filling the pit will be requested. Once reclamation activities have begun, they shall be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The objective is to keep seasonal rainfall and run off from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert the run off as needed.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas will be scarified and left with a rough surface.

A) Seeding dates:

Seed will be spread when topsoil is stock piled and when reclamation work is performed.

The seed mix and quantity list will be used whether the seed is broadcast or drilled.

B) Seed Mix:

To be determined by the Land Owner.

11. Surface ownership:

Access road	Fee
Location	Fee
Pipeline	Fee

12. Other information:

A) Vegetation

The vegetation coverage is Slight. The majority of the existing vegetation consists of non-native species. Rabbit brush, bitter brush, and Indian Rice grass and Sagebrush are also found on the location.

B) Dwellings:

There are no dwellings or other facilities within a one-mile radius of the location.

C) Archeology:

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the antiquities act of June 8, 1906) are discovered, all operations, which would affect such sites, will be suspended and the discovery reported

promptly to the surface management agency.

been off production for more than 90 days.

D) Water:

The nearest water is the Coyote Wash located 1½ miles to the South.

E) Chemicals:

No pesticides, herbicides or other possible hazardous chemicals will be used without prior application.

F) Notification:

- a) Location Construction
At least forty eight (48) hours prior to construction of location and access roads.
- b) Location completion
Prior to moving on the drilling rig.
- c) Spud notice
At least twenty-four (24) hours prior to spudding the well.
- d) Casing string and cementing
At least twenty-four (24) hours prior to running casing and cementing all casing strings.
- e) BOP and related equipment tests
At least twenty-four (24) hours prior to initial pressure tests.
- f) First production notice
Within five (5) business days after the new well begins, or production resumes after well has

G) Flare pit:

The flare pit will be located in **corner C** of the reserve pit outside the pit fences and 100 feet from the bore hole on the east side of the location. All fluids will be removed from the pit within 48 hours of occurrence.

H) Safety:

All access is restricted to the access road and location. Signs will be posted at the beginning of the access road and on the location to stay within the disturbed area.

13. Lessees or Operator's representative and certification

A) Representative

William A. Ryan
Rocky Mountain Consulting
290 S 800 E
Vernal, UT 84078

Office 435-789-0968
Fax 435-789-0970
Cellular 435-828-0968

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, onshore oil and gas orders, and any applicable notices to lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be

furnished to the field
representative to ensure
compliance.


Onsite Dates:

This drilling permit will be
valid for a period of one year
from the date of approval.
After permit termination, a new
application will be filed for
approval for any future
operations.

B) Certification:

I hereby certify that I, or persons
under my direct supervision, have
inspected the proposed drill-site
and access route that I am
familiar with the conditions which
presently exist, that the statements
made in this plan are, to the best
of my knowledge and belief, true
and correct, and that the work
associated with the operation
proposed herein will be
performed by Cabot Oil and Gas
and its contractors and
subcontractors in conformity with
this plan and terms and conditions
with this plan and the terms and
conditions under which it is
approved.

Date 3/20/06


William A. Ryan, Agent
Rocky Mountain Consulting

Statement of use of Hazardous Materials

No chemical(s) from the EPA's consolidated list of Chemicals subject to Reporting under Title III of the Superfund Amendments and Reauthorization, Act (SARA) of 1986 will be used, produced, transported, stored, disposed, or associated with the proposed action. No extremely hazardous substances, as defined in 40 cfr 355, will be used, produced, stored, transported, disposed, or associated with the proposed action.

If you require additional information please contact:

William A Ryan
Agent for Cabot Oil and Gas
Rocky Mountain Consulting
290 S 800 E
Vernal, UT 84078

435-789-0968 Office
435-828-0968 Cell
435-789-0970 Fax

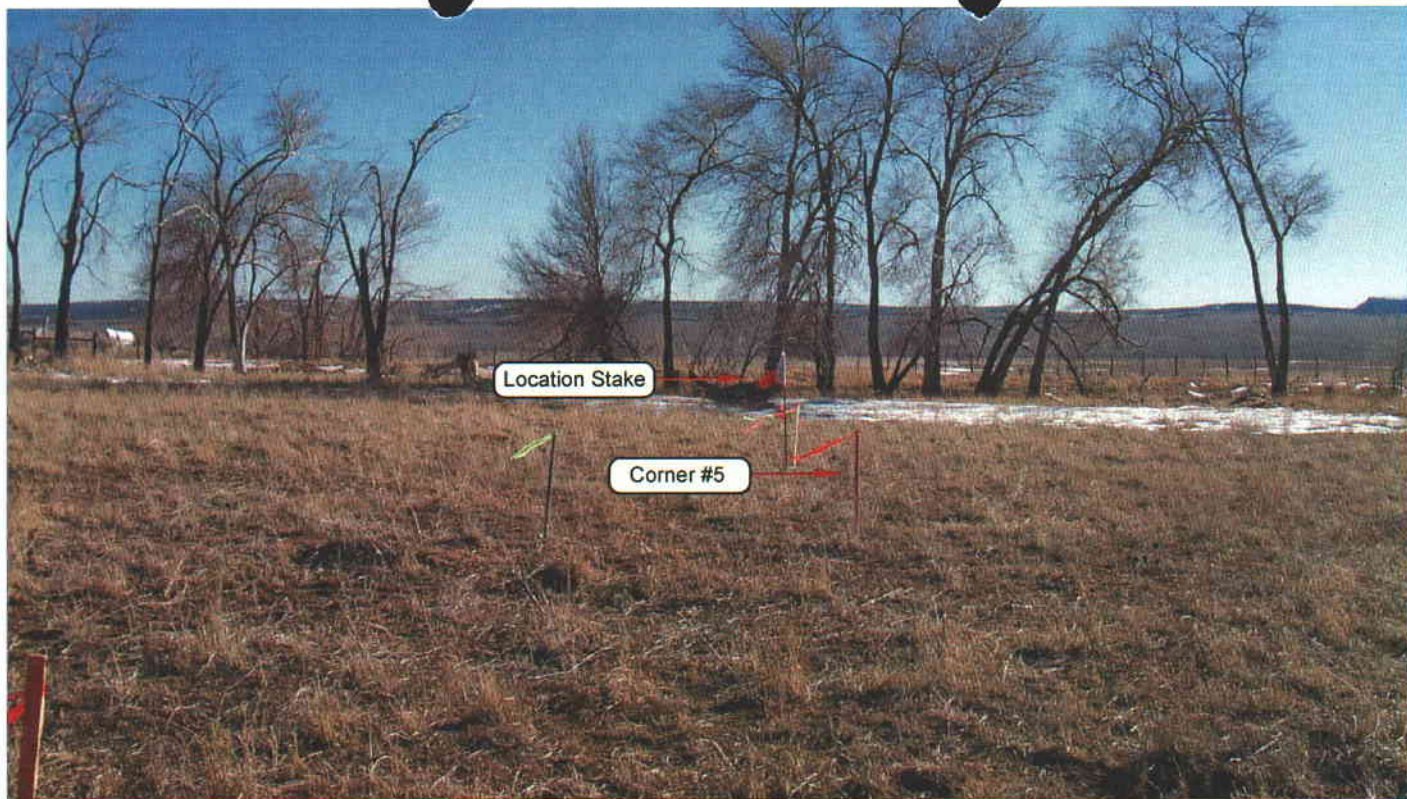


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHERLY

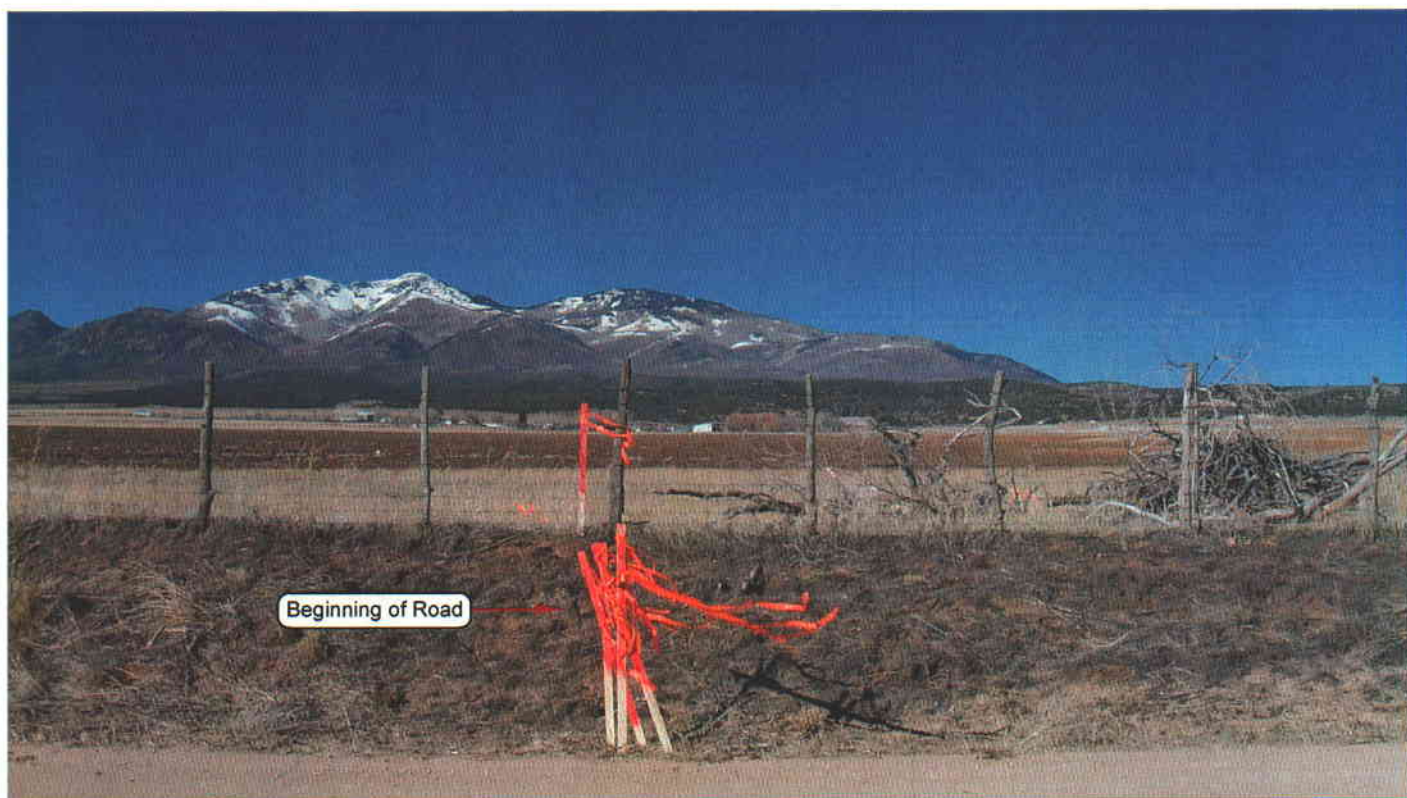


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHERLY

CABOT OIL AND GAS

McKenna 1-11
SECTION 11, T29S, R24E, S.L.B.&M.
2482' FNL & 2220' FWL

LOCATION PHOTOS

TAKEN BY: K.R.K.

DRAWN BY: B.J.Z.

DATE TAKEN: 2-13-06

DATE DRAWN: 2-14-06

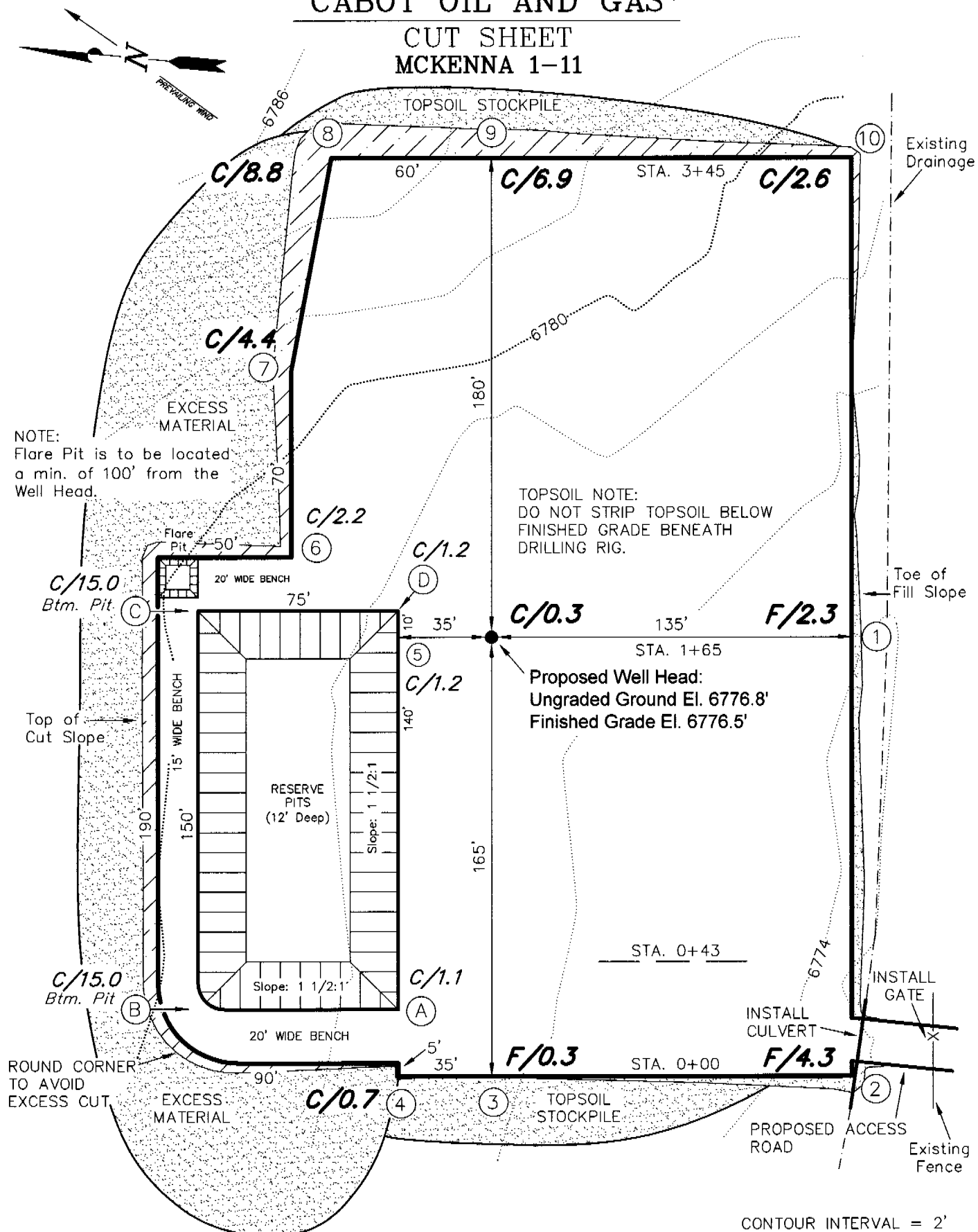
REVISED:

Timberline Land Surveying, Inc.
 38 West 100 North Vernal, Utah 84078
 (435) 789-1385

SHEET
1
OF 10

CABOT OIL AND GAS

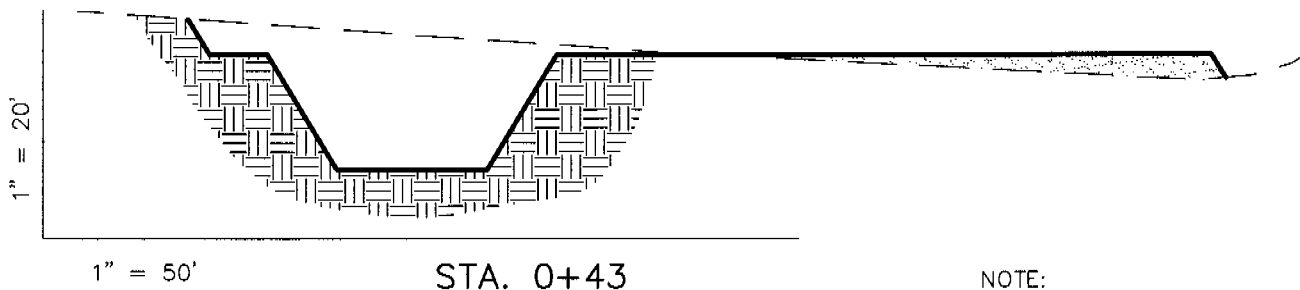
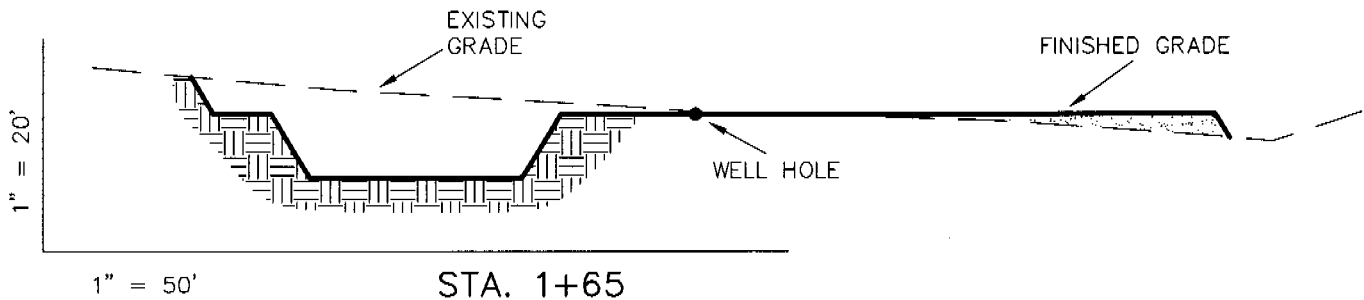
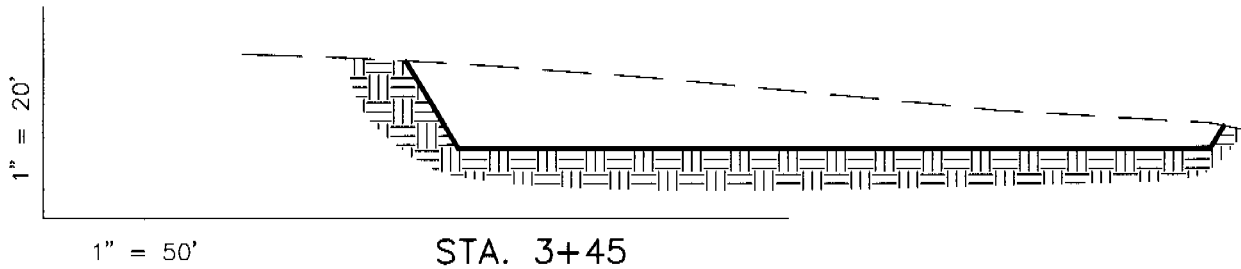
CUT SHEET MCKENNA 1-11



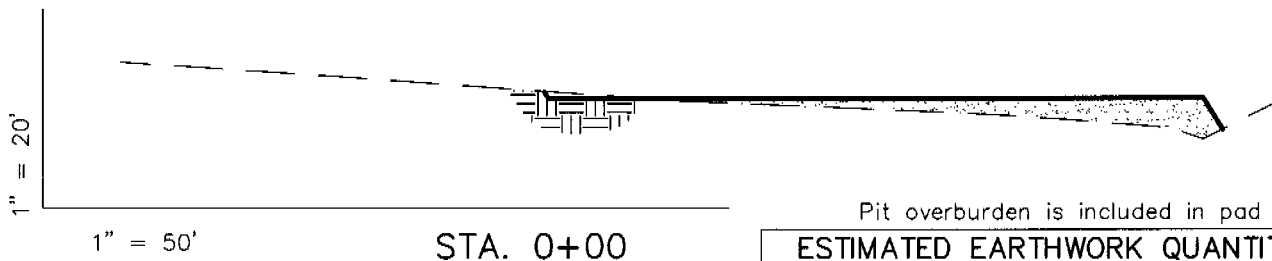
Section 11, T29S, R24E, S.L.B.&M.		Qtr/Qtr Location: SE NW	Footage Location: 2482' FNL & 2220' FWL
Date Surveyed: 02-13-06	Date Drawn: 02-14-06	Date Last Revision:	Timberline (435) 789-1365
Surveyed By: K.R.K.	Drawn By: M.W.W.	Scale: 1" = 50'	Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078			SHEET 3 OF 10

CABOT OIL AND GAS

CROSS SECTIONS MCKENNA 1-11



NOTE:
UNLESS OTHERWISE NOTED
ALL CUT/FILL SLOPES ARE
AT 1.5:1



REFERENCE POINTS

173' SOUTHERLY = 6776.7'
150' SOUTHERLY = 6773.6'
200' WESTERLY = 6776.0'
234' WESTERLY = 6776.3'

ESTIMATED EARTHWORK QUANTITIES (No shrink or swell adjustments have been used) (Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	4,290	1,750	Topsoil is not included in Pad Cut	2,540
PIT	3,340	0		3,340
TOTALS	7,630	1,750	1,500	5,880

Excess Material after Pit Rehabilitation = 4,210 Cu. Yds.

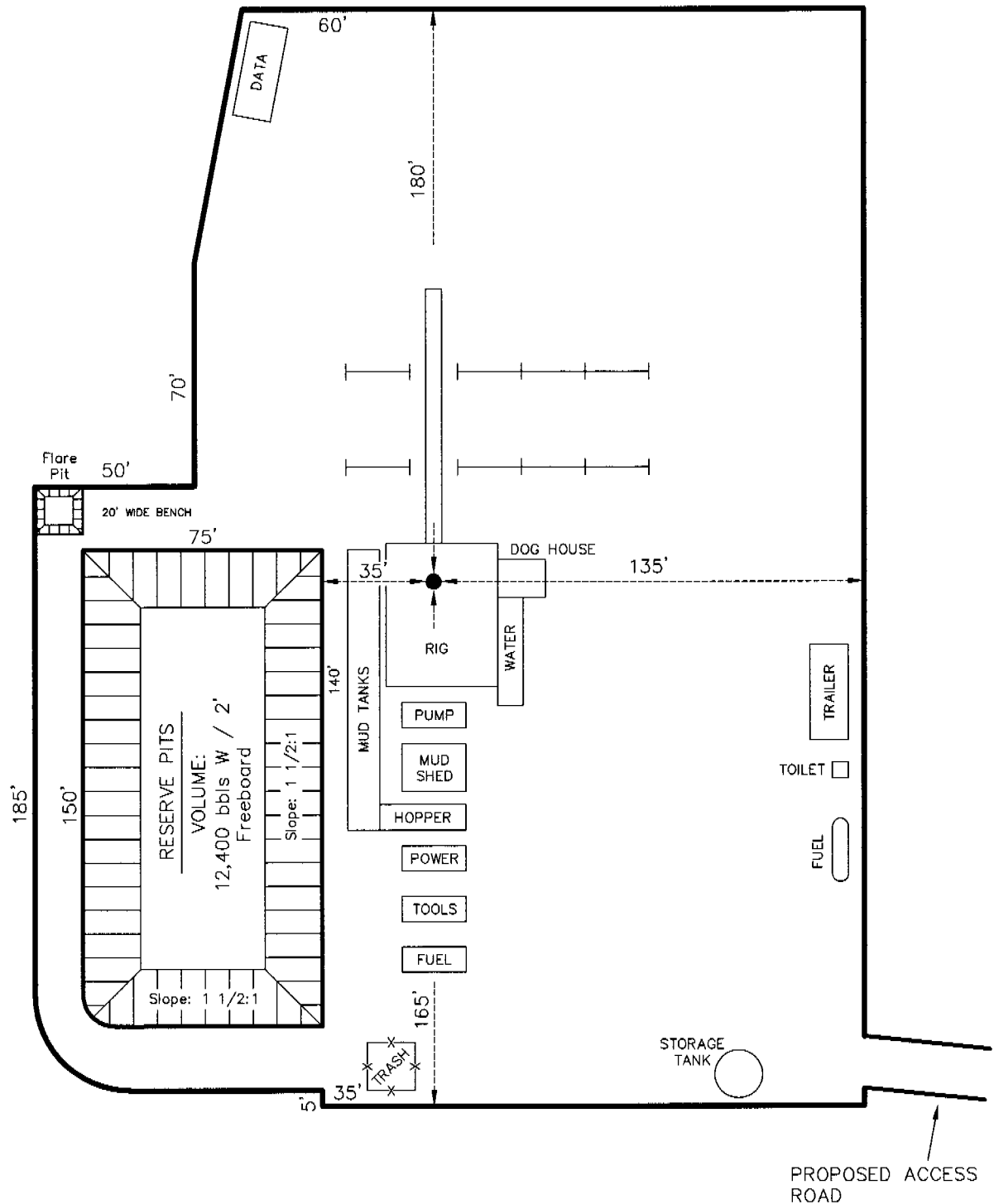
Pit overburden is included in pad cut.

Section 11, T29S, R24E, S.L.B.&M.		Qtr/Qtr Location: SE NW	Footage Location: 2482' FNL & 2220' FWL
Date Surveyed: 02-13-06	Date Drawn: 02-14-06	Date Last Revision:	Timberline (435) 789-1365 Land Surveying, Inc. 38 WEST 100 NORTH VERNAL, UTAH 84078
Surveyed By: K.R.K.	Drawn By: M.W.W.	Scale: 1" = 50'	

SHEET
4
OF 10

CABOT OIL AND GAS

TYPICAL RIG LAYOUT MCKENNA 1-11



Section 11, T29S, R24E, S.L.B.&M.

Qtr/Qtr Location: SE NW

Footage Location: 2482' FNL & 2220' FWL

Date Surveyed:
02-13-06

Date Drawn:
02-14-06

Date Last Revision:

Timberline (435) 789-1365
Land Surveying, Inc.

SHEET
5
OF 10

Surveyed By: K.R.K.

Drawn By: M.W.W.

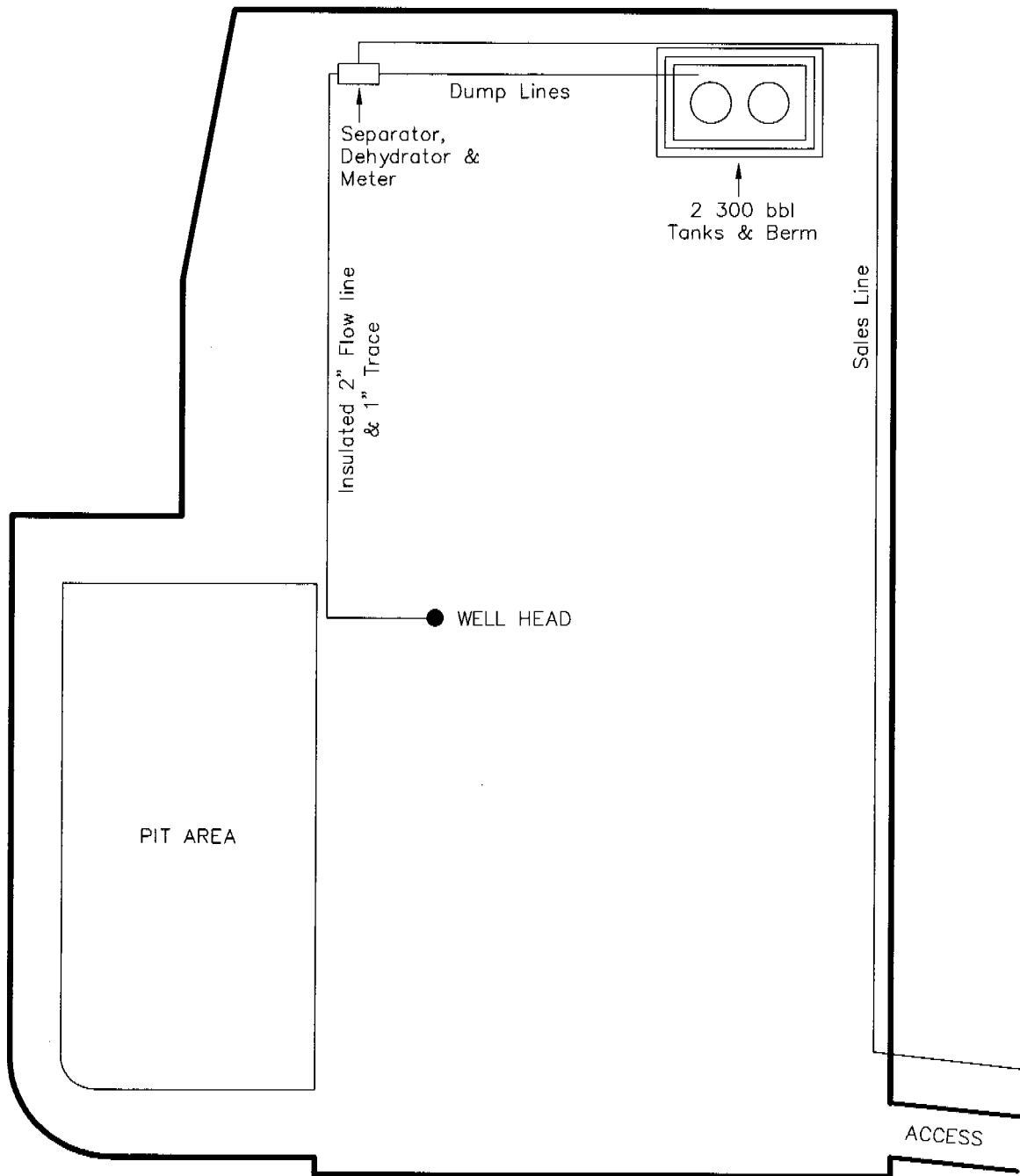
Scale: 1" = 50'

38 WEST 100 NORTH VERNAL, UTAH 84078

CABOT OIL AND GAS

TYPICAL PRODUCTION LAYOUT

MCKENNA 1-11



Section 11, T29S, R24E, S.L.B.&M.		Qtr/Qtr Location: SE NW	Footage Location: 2482' FNL & 2220' FWL
Date Surveyed: 02-13-06	Date Drawn: 02-14-06	Date Last Revision:	<i>Timberline</i> (435) 789-1365
Surveyed By: K.R.K.	Drawn By: M.W.W.	Scale: 1" = 50'	<i>Land Surveying, Inc.</i> 38 WEST 100 NORTH VERNAL, UTAH 84078

SHEET
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OF 10



LEGEND

- = PROPOSED WELL LOCATION
- = EXISTING ROAD
- = EXISTING ROAD (TO BE IMPROVED)
- - - = PROPOSED ACCESS ROAD

TOPOGRAPHIC MAP "A"

SCALE: 1:100,000

DRAWN BY: B.J.Z.

DATE SURVEYED: 2-13-06

DATE DRAWN: 2-14-06

REVISED:

CABOT OIL AND GAS

McKenna 1-11

SECTION 11 , T29S, R24E, S.L.B.&M.

2482' FNL & 2220' FWL

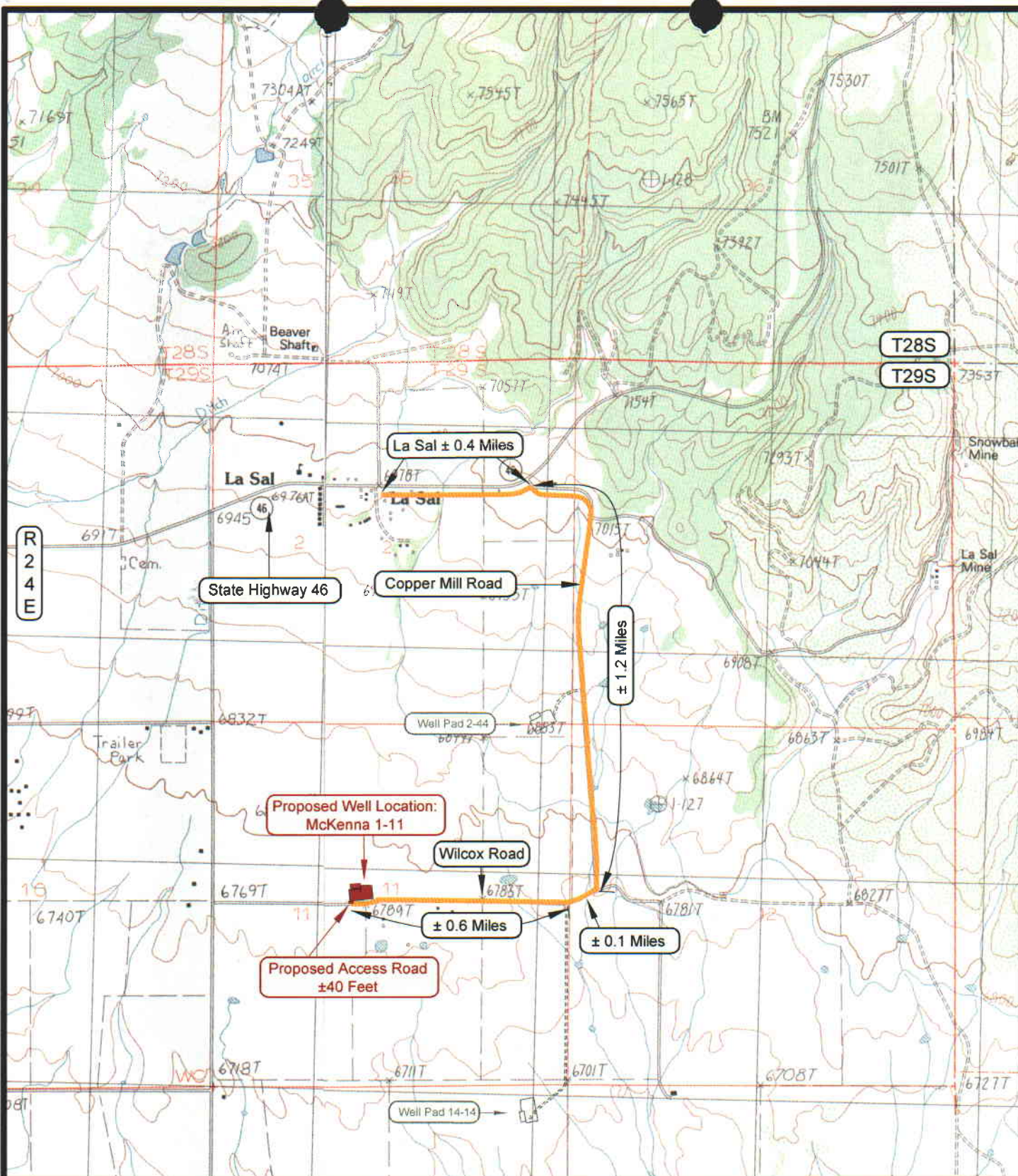
Timberline Land Surveying, Inc.

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(435) 789-1365

SHEET

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OF 10



LEGEND

- PROPOSED ACCESS ROAD
- = SUBJECT WELL
- = SHARED ACCESS
- = EXISTING ROAD
- = EXISTING ROAD (TO BE IMPROVED)

— = LEASE LINE AND / OR
PROPERTY LINE

TOPOGRAPHIC MAP "B"

SCALE: 1" = 2000'

DRAWN BY: B.J.Z.

DATE SURVEYED: 2-13-06

DATE DRAWN: 2-14-06

REVISED:

CABOT OIL AND GAS

McKenna 1-11
SECTION 11, T29S, R24E, S.L.B.&M.
2482' FNL & 2220' FWL

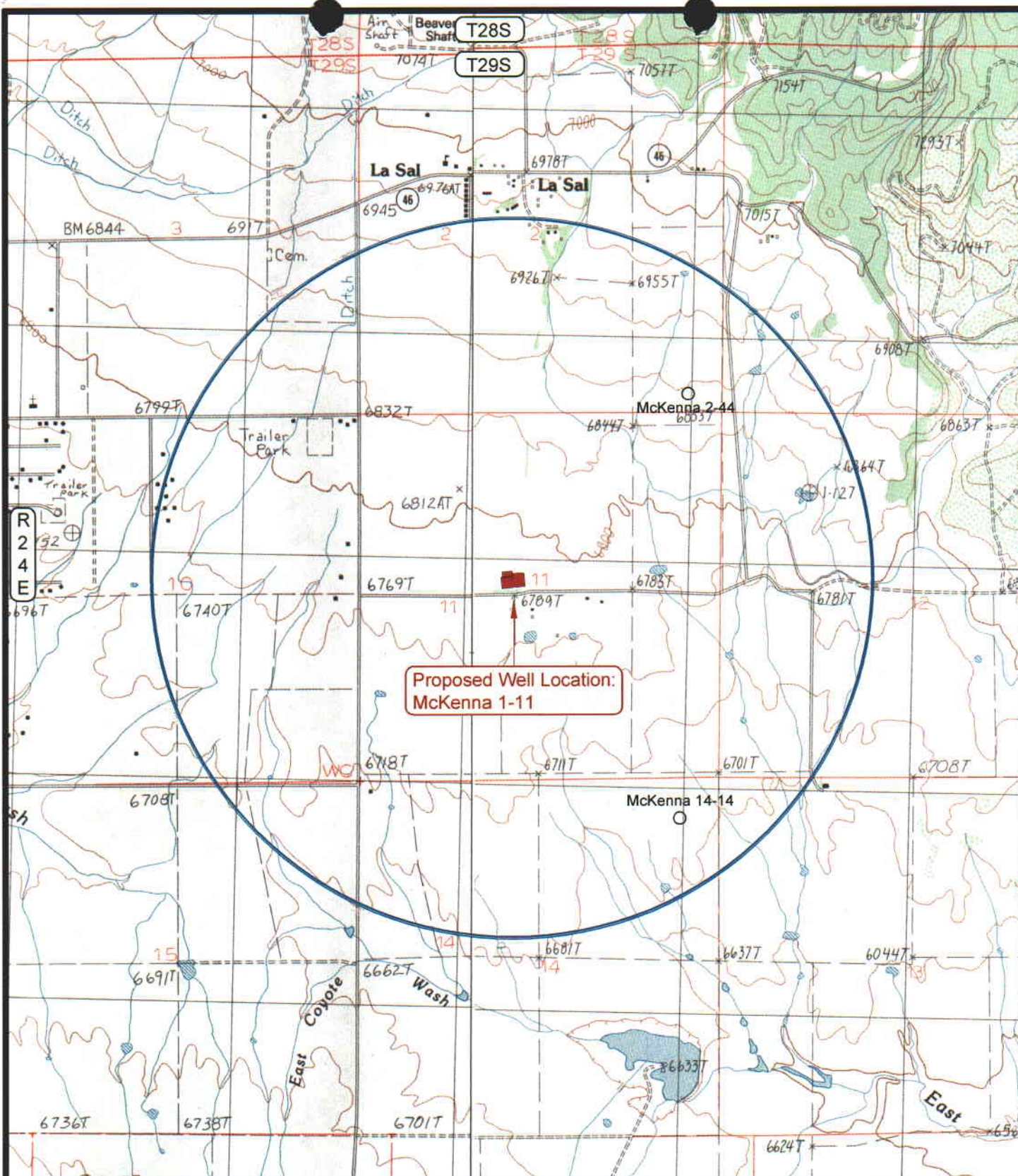
Timberline Land Surveying, Inc.

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(435) 789-1365

SHEET

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OF 10



LEGEND

- | | |
|--------------------|--------------------------------|
| ⊘ = DISPOSAL WELL | ⊘ = WATER WELL |
| ● = PRODUCING WELL | ● = ABANDONED WELL |
| ● = SHUT IN WELL | ● = TEMPORARILY ABANDONED WELL |
| ○ = PROPOSED WELL | ⊕ = ABANDONED LOCATION |

TOPOGRAPHIC MAP "C"

DATE SURVEYED: 2-13-06

DATE DRAWN: 2-14-06

SCALE: 1" = 2000'

DRAWN BY: B.J.Z.

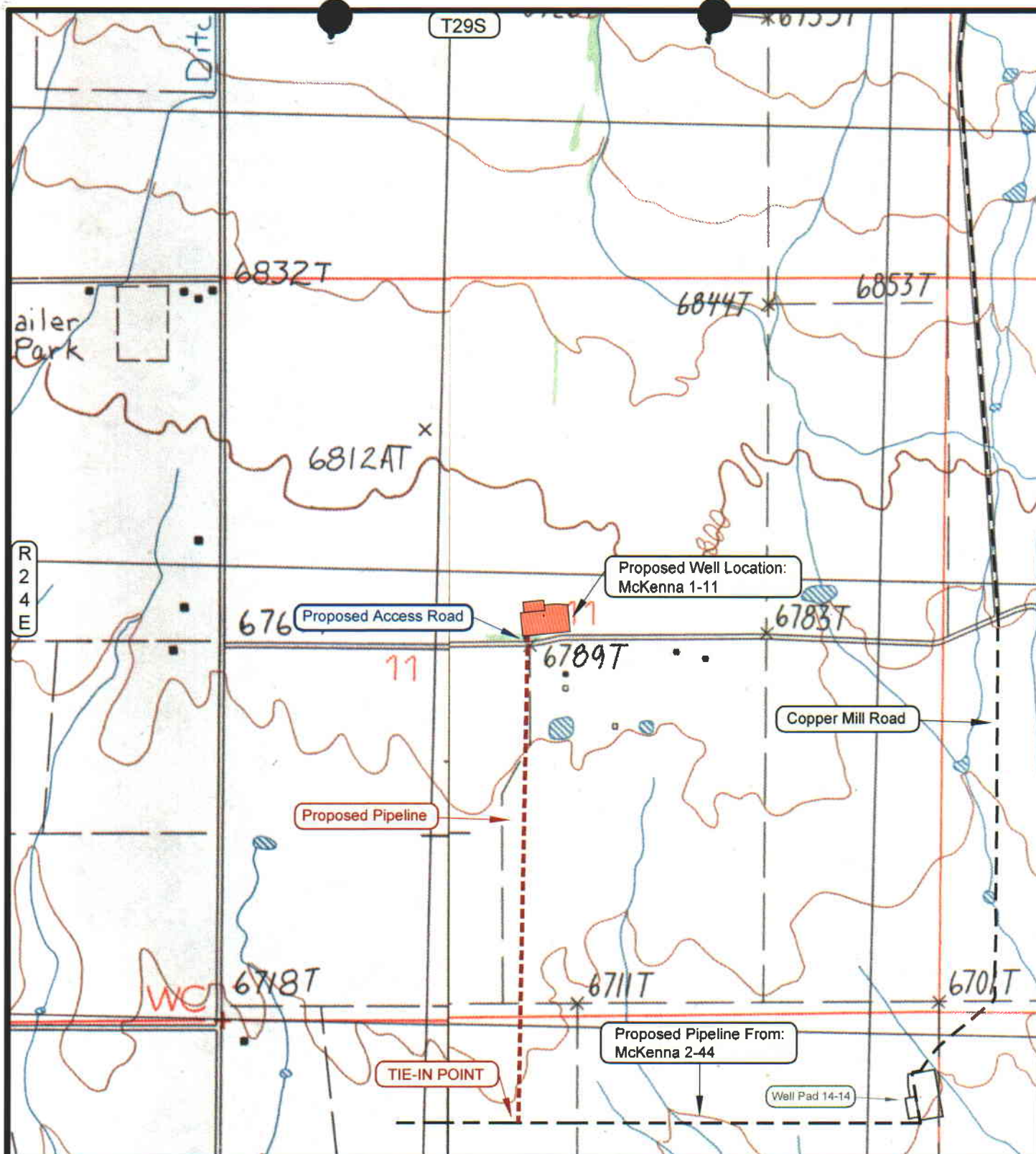
REVISED:

CABOT OIL AND GAS

McKenna 1-11
SECTION 11, T29S, R24E, S.L.B.&M.
2482' FNL & 2220' FWL

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 (435) 789-1365

SHEET
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OF 10



APPROXIMATE PIPELINE LENGTH = 3,570' Feet

LEGEND

- = EXISTING PIPELINE
- - - = PROPOSED PIPELINE
- = PROPOSED ACCESS ROAD
- = LEASE LINE AND / OR PROPERTY LINE

TOPOGRAPHIC MAP "D"

DATE SURVEYED: 2-13-06

DATE DRAWN: 2-14-06

SCALE: 1" = 1000'

DRAWN BY: B.J.Z.

REVISED:

CABOT OIL AND GAS

McKenna 1-11

SECTION 11, T29S, R24E, S.L.B.&M.

2482' FNL & 2220' FWL

Timberline Land Surveying, Inc.

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(435) 789-1365

SHEET

10

OF 10

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/12/2006

API NO. ASSIGNED: 43-037-31846

WELL NAME: MCKENNA 1-11

OPERATOR: CABOT OIL & GAS CORP (N6345)

CONTACT: BILL RYAN

PHONE NUMBER: 303-868-6612

PROPOSED LOCATION:

SENW 11 290S 240E

SURFACE: 2482 FNL 2220 FWL

BOTTOM: 2482 FNL 2220 FWL

COUNTY: SAN JUAN

LATITUDE: 38.29592 LONGITUDE: -109.2481

UTM SURF EASTINGS: 653206 NORTHINGS: 4239894

FIELD NAME: WILDCAT (1)

INSPECT LOCATN BY: / /

Tech Review

Initials

Date

Engineering

DRD

6/7/06

Geology

Surface

LEASE TYPE: 4 - Fee

LEASE NUMBER: FEE

SURFACE OWNER: 4 - Fee

PROPOSED FORMATION: DSCR

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[] Ind[] Sta[] Fee[]
(No. RLB0008662)

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit

(No. T-30139)

☒ RDCC Review (Y/N)

(Date: 04/27/2006)

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: _____

___ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

☒ R649-3-3. Exception

___ Drilling Unit

Board Cause No: _____

Eff Date: _____

Siting: _____

___ R649-3-11. Directional Drill

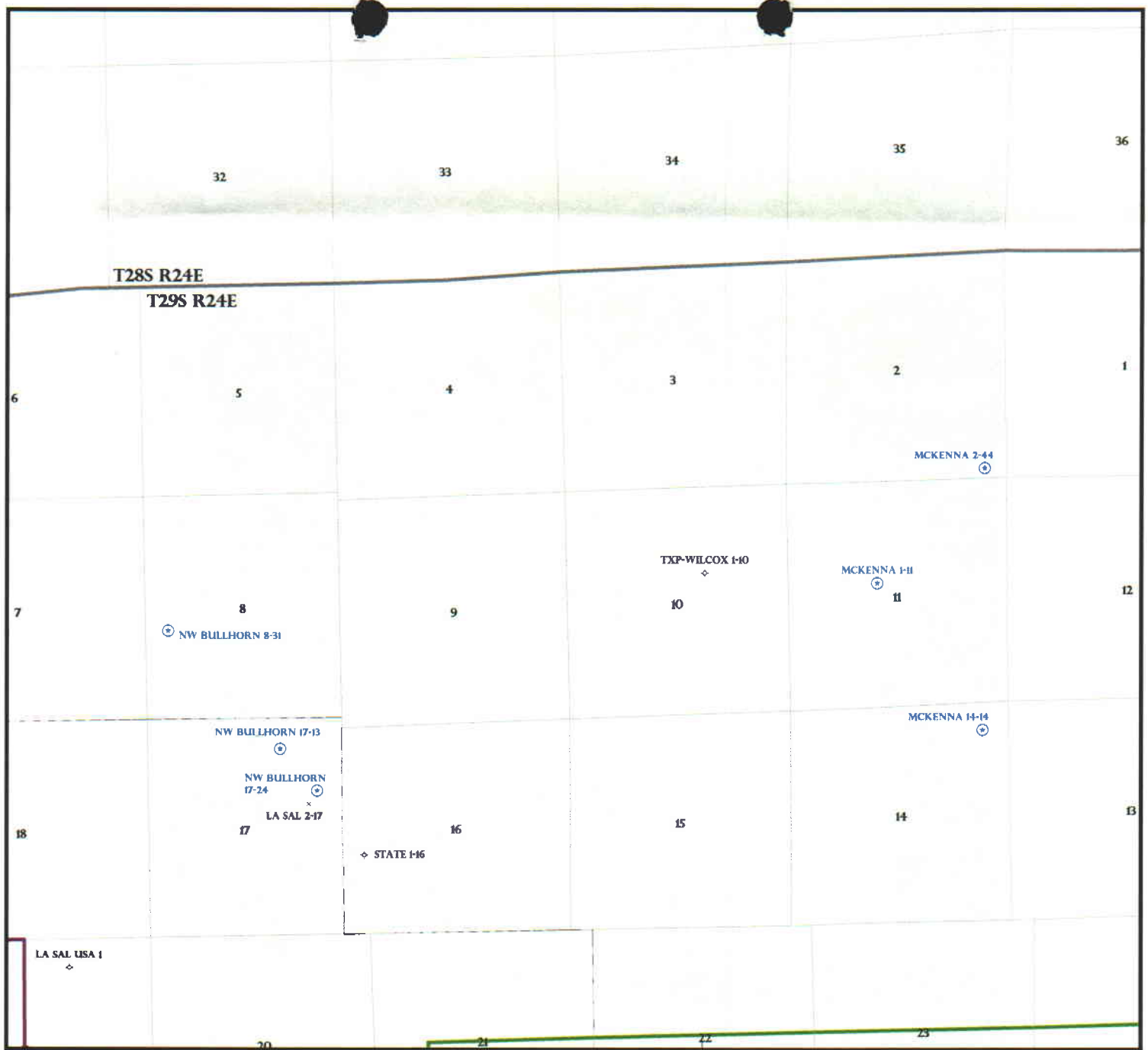
COMMENTS:

Needs Permit (05-02-06)

STIPULATIONS:

1. Spacing GHP

2. STATEMENT OF BASIS



OPERATOR: CABOT O&G (N6345)

SEC: 11 T. 29S R. 24E

FIELD: WILDCAT (001)

COUNTY: SAN JUAN

SPACING: R649-3-3 / EXCEPTION LOCATION

Field Status

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY
DATE: 13-APRIL-2006

ON-SITE PREDRILL EVALUATION
Division of Oil, Gas and Mining

OPERATOR: Cabot Oil and Gas
WELL NAME & NUMBER: Mckenna 1-11
API NUMBER: 43-037-31846
LEASE: State FIELD/UNIT: _____
LOCATION: 1/4, 1/4 SE NW Sec: 11 TWP: 29S RNG: 24E 2482 FNL 2220 FWL
LEGAL WELL SITING: _____ F SEC. LINE; _____ F 1/4, 1/4 LINE; _____ F ANOTHER WELL.
GPS COORD (UTM): X = _____ E; Y = _____ N SURFACE OWNER: Fee

PARTICIPANTS

Bart Kettle (DOGM), Ginger Stringham (Paradigm Consulting, Inc), Kolby Kay (Timberline Land Surveying, Inc), Charles Redd (Surface owner)

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Proposed location is ~2.3 miles south of La Sal, San Juan County, Utah.
Areas surrounding the proposed well are a series of rough broken up sandstone ledges, wide relatively flat valley floors and agriculture fields. Pinyon/Juniper woodlands and Wyoming sage communities that have been chained and seeded with crested wheatgrass dominate the general area, however the immediate area surrounding this well are alfalfa and small grain fields. Access to this well will be along county roads with virtually no new road construction. Drainage is to the southeast entering the Dolores River ~15 miles away. A portion of the well pad sits in a field that had been disked and reseeded at the outer edge of a pivot irrigation system. Soils are prone to wind erosion when vegetation is disturbed.

SURFACE USE PLAN

CURRENT SURFACE USE: Wildlife, farm land and livestock grazing.

PROPOSED SURFACE DISTURBANCE: 345' x 260'

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: None

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Production facilities such as separators, dehydrators, flow meters and tanks will be located on-site.

SOURCE OF CONSTRUCTION MATERIAL: On-site

ANCILLARY FACILITIES: None required

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS?
(EXPLAIN): Drilling at this location is not expected to generate significant public concern.

WASTE MANAGEMENT PLAN:

A trash cage fabricated from expanded metal will be used to hold trash on location and will be removed to an authorized landfill location. A portable chemical toilet will be supplied for human waste.

Reserve pit will be used to store water for drilling. A semi closed system will be used to drill the well. All fresh water for drilling will come from a frac tank placed on location and from the rig tank. The pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids. No produced fluids will be allowed into the reserve pit, a temporary tank will be required to collect these fluids.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: No flood plains or wetlands will be affected by building this well pad. Pad construction is not expected to affect the short-term sediment loads into East Coyote Wash, but may increase long-term wind erosion.

FLORA/FAUNA: Mule Deer, elk, cottontail rabbits, black tail jackrabbits, whitetail prairie dogs, neo-tropical songbirds, lizards, snakes and raptors.

Grasses: Foxtail, cheat grass, tall fescue, Johnson grass, Sandburgs bluegrass, Kentucky bluegrass. Forbs: Alfalfa, annual kochia, purple mustard, yellow flixweed, lambs quarter, yellow clover and Russian knapweed. Shrubs: None noted. Trees: Chinese Elm. Other: None noted.

SOIL TYPE AND CHARACTERISTICS: Barnum loam, very deep alluvium derived yellowish red loams and clay loams.

SURFACE FORMATION & CHARACTERISTICS: Alluvium deposits. Gently sloping wide valley with deep soils.

EROSION/SEDIMENTATION/STABILITY: Project is located in a depositional zone of alluvial bottoms along East Coyote Wash. Run off is slow, and the hazard of water erosion is slight. The hazard of soil blowing is slight. Soils are subject to brief periods of flooding in July to September. Soil erosion will increase during the initial construction phase of the project. Removal of vegetation and physical soil crust will reduce surface soil aggregates and therefore reduce soil stability. As vegetation recovers, and soil crusts are formed soils will become more stable. Wind and water erosion rates would be reduced, but still accelerated from undisturbed sites.

PALEONTOLOGICAL POTENTIAL: None noted

RESERVE PIT

CHARACTERISTICS: 150'x75'x12'

LINER REQUIREMENTS (Site Ranking Form attached): Liner Required

SURFACE RESTORATION/RECLAMATION PLAN

As per surface use agreement _____

SURFACE AGREEMENT: Surface agreement has not been signed at the time of onsite visit.

CULTURAL RESOURCES/ARCHAEOLOGY: _____

OTHER OBSERVATIONS/COMMENTS

Southeastern portion of the well pad partially flooded from runoff irrigation water at the time of on-site visit. Surface owner requesting that pond built in that vicinity remain for watering livestock. Access road will cross dike built parallel to the county road; dike is no longer needed to push water over rise to the east. Northwest corner of the well pad falls within the spray pattern of the end gun on pivot irrigation system. Surface owner is ok with location extending into that portion of the field and is willing to re time end gun to prevent it from spraying onto that portion of the well pad. Surface owner requesting that trees removed for well pad construction be piled to allow use as firewood. Surface owner requesting that well pad be fenced if well is a producer before cattle are pastured in the field during the fall months. Access road may require a "y" entry onto location rather than a 90 degree turn to allow trucks to enter location without damaging fence. It is felt that a 90 degree turn onto the location will require a gate in excess of 40', it would not be practical to maintain a gate or cattle guard that wide at this location. No Surface Use Agreement signed at the time of on-site visit.

ATTACHMENTS

Photos of this location were taken and placed on file.

Bart Kettle
DOGM REPRESENTATIVE

May 10, 2006 11:05 a.m.
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

Final Score 20 (Level I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required, consider criteria for excluding pit use.

Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.





[State Online Services](#)[Agency List](#)[Business.utah.gov](#)

Search Utah.gov

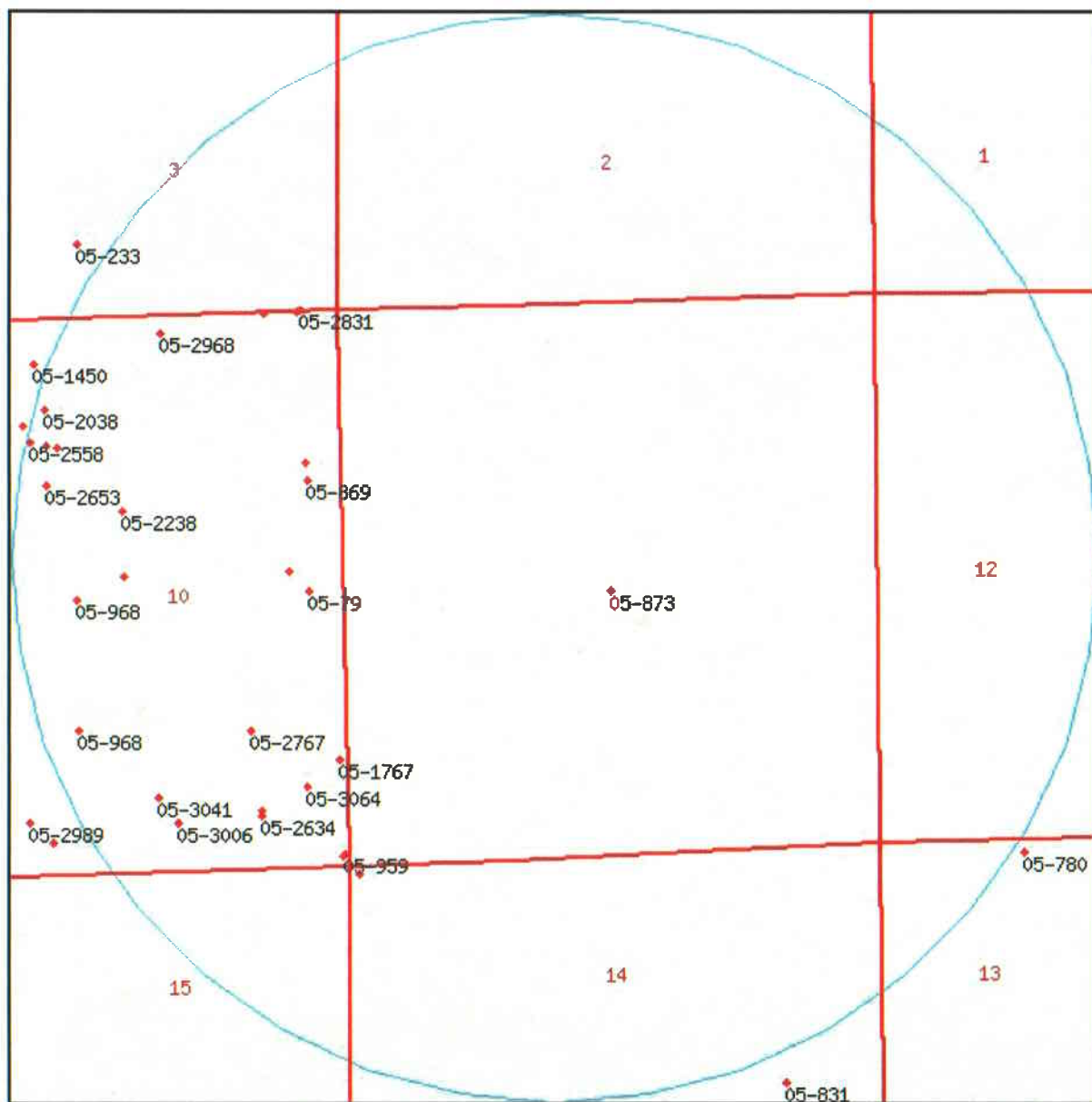
[GO](#)

UTAH DIVISION OF WATER RIGHTS

WRPLAT Program Output Listing

Version: 2004.12.30.00 Rundate: 05/17/2006 03:02 PM

Radius search of 5280 feet from a point S2482 E2220 from the NW corner, section 11, Township 29S, Range 24E, SL b&m Criteria:wrtypes=W,C,E
podtypes=all status=U,A,P usetypes=all



Water Rights

WR Number	Diversion Type/Location	Well Log	Status	Priority	Uses	CFS	ACFT	Owner Name
05-105	Underground N2675 W51 S4 10 29S 24E SL	<u>well info</u>	P	19540517	IS	0.641	0.000	DANNY LYNN BRADSHOW P.O. BOX 143
05-1450	Underground S440 E2430 NW 10 29S 24E SL	<u>well info</u>	P	19780518	DI	0.015	0.000	STEPHEN A. & MAXINE DEETER P.O. BOX 102
05-1586	Underground N110 W2145 E4 10 29S 24E SL	<u>well info</u>	A	19760413	DIS	0.015	0.000	SHARON S. CHRISTENSEN P.O. BOX 172
05-1609	Underground S1220 W215 N4 10 29S 24E SL	<u>well info</u>	P	19790323	DI	0.015	0.000	DICK KNAPP LOT 5 WOODRUFF SUBDIVISION
05-1678	Underground N110 W2145 E4 10 29S 24E SL		U	19760413	DIS	0.100	0.000	HARRY LEE AND JUNNE STRATMAN P.O. BOX 188
05-1766	Underground S870 E2541 NW 10 29S 24E SL		P	19800610	DI	0.015	0.000	DONALD L. YOUNGBLOOD P.O. BOX 245
05-1767	Underground S1661 W50 E4 10 29S 24E SL	<u>well info</u>	P	19800606	DI	0.015	0.000	CHANDLER OIL AND GAS COMPANY 815 KEARNS BUILDING
05-1844	Underground S1025 E2316 NW 10 29S 24E SL	<u>well info</u>	P	19810501	DI	0.015	0.000	KENNETH AND PEARL HORROCKS P.O. BOX 152
05-203	Underground S94 W294 NE 10 29S 24E SL		P	19560823	D	0.015	0.000	E.L. CORD MINING COMPNAY BOX 474

05-2038	Underground	well info	P	19830912 I	0.015 0.000	JOHN G. AND RUTH M. NICOL S870 E2541 NW 10 29S 24E SL P.O. BOX 334
05-2237	Underground		P	19920903 S	0.015 0.000	WILCOX RANCHES S2031 W1984 NE 10 29S 24E SL ATTN: MAX WILCOX
05-2238	Underground		P	19880707 I	0.390 0.000	WILCOX RANCHES S2031 W1984 NE 10 29S 24E SL ATTN: MAX WILCOX
05-233	Underground		P	19580614 D	0.015 0.000	LEWIS L. JOHN N733 E2847 SW 03 29S 24E SL BOX 901
05-2526	Underground		A	19950413 DIS	0.000 4.730	NATHAN WAYNE AND AMANDA LYNN FREESTONE S1236 W103 N4 10 29S 24E SL P. O. BOX 43
05-2558	Underground		P	19951218 DIS	0.000 3.280	WILLIAM B. AND CONNIE J. SLOAN S1185 W373 N4 10 29S 24E SL P.O. BOX 263
05-2606	Underground	well info	P	20020311 DI	0.000 0.542	JODY PATTERSON N652 W312 SE 10 29S 24E SL P.O. BOX 644
05-2607	Underground	well info	A	20060215 DI	0.000 4.730	WILLIAM D. & RITA WHARTON S1550 W208 NE 10 29S 24E SL P.O. BOX 632
05-2632	Underground		P	19600411 DI	0.217 20.820	SANDERLING LA SAL PROPERTIES L.L.C. S108 W606 NE 10 29S 24E SL P.O. BOX 306
05-2634	Underground	well info	P	19961015 DIS	0.000 4.482	PAUL AND STACEY BLANK N375 W757 SE 10 29S P.O. BOX 172

	24E SL					
05-2653	Underground		P	19970317 DIS	0.000 1.930	AUDREY AND ARLENE BRADSHAW
	S1612 W214 N4 10 29S 24E SL					P.O. BOX 238
05-2681	Underground	<u>well info</u>	A	19970915 DIS	0.000 4.730	ROLDO R. & YVONNE M. BLISS
	N420 E2342 SW 10 29S 24E SL					4892 SUNNY ACRES LANE
05-2761	Underground		A	20050506 DIS	0.000 4.510	LAURIE JACOBSON
	N660 W310 SE 10 29S 24E SL					6118 NORTH 10TH AVENUE
05-2767	Underground	<u>well info</u>	P	19990602 DI	0.000 4.690	DONALD E. & JANET G. CURLEY
	N1206 W871 SE 10 29S 24E SL					P.O. BOX 163
05-2831	Underground		P	20000510 DIS	0.000 1.338	ALLEN PATTERSON
	S72 W260 NE 10 29S 24E SL					1482 SOUTH LANSING STREET
05-2935	Underground		A	20020815 DIS	0.000 4.510	DAVID BIRSCHIED
	N420 W750 SE 10 29S 24E SL					131 NORTH MAIN
05-2968	Underground		A	20030501 DI	0.000 4.730	RAYMON CARLING
	S120 E900 N4 10 29S 24E SL					744 HILLSIDE
05-2989	Underground		A	20031117 DIS	0.000 4.730	REX W./VICKIE D. PETERSON
	N521 W501 S4 10 29S 24E SL					P.O. BOX 25
05-2996	Underground	<u>well info</u>	A	20040315 DIS	0.000 4.510	DAVID AND KATHLEEN BIERSCHIED
	N550 W1764 SE 10 29S 24E SL					411 LOVERIDGE DRIVE
05-2997	Underground		A	20040315 DIS	0.000 4.510	TRACEY V. GIFFORD
	N420 W750 SE 10 29S 24E SL					P. O. BOX 1200

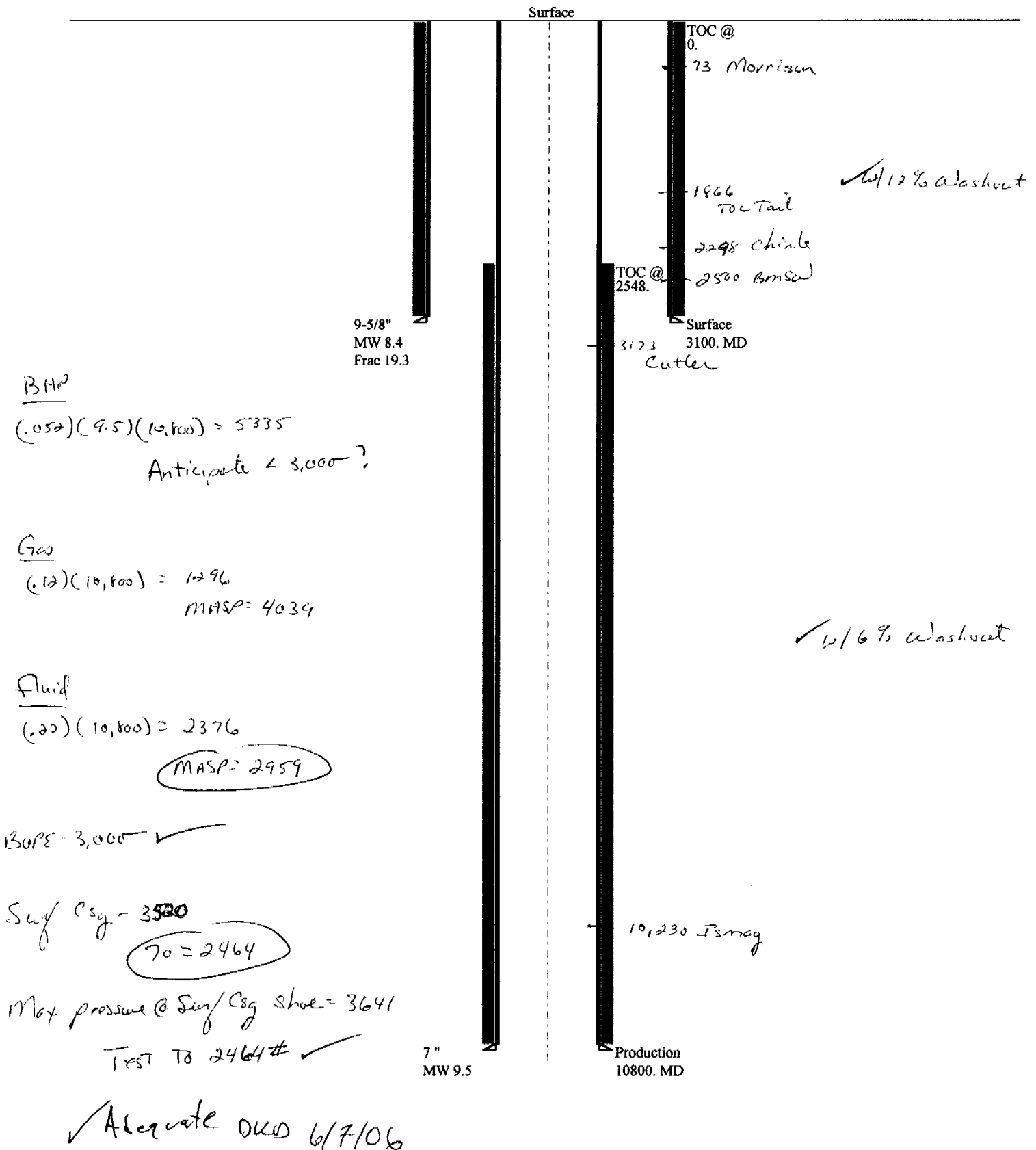
well

05-3006	Underground	info	A	20040524 DIS	0.000 4.510	MALCOLM AND SUSAN PHILLIPS AVEMONT WILLFIELD LANE BROWN EDGE
05-3041	Underground		A	20041222 DIS	0.000 4.510	MARC GROSSMAN 17342 HARDING CANYON ROAD
05-3064	Underground		A	20050705 DIS	0.000 4.506	JEREMY R. & LEEYLA MARTINEZ 16 N. MOUNTAIN VIEW DRIVE
05-376	Underground		P	19611020 IS	0.385 0.000	DANNY LYNN BRADSHAW P.O. BOX 143
05-597	Underground		P	19330200 DI	0.009 0.000	EDD E. PROVONSHA LASAL UT 84530
05-598	Underground		P	19341014 DS	0.031 0.000	EDD E. PROVONSHA LASAL UT 84530
05-779	Underground		P	19700908 DIS	0.050 0.000	ROBERT S. AND MARY R. WILDMANN 41732 NORTH ROLLING GREEN WAY
05-780	Underground	<u>well info</u>	P	19700910 DIS	0.019 0.000	SANDRA WILCOX WOODRING P.O. BOX 86
05-79	Underground	<u>well info</u>	P	19530211 DIS	0.051 0.000	J. REED LARSEN 2801 NILA WAY
05-831	Surface		P	19710319 IOS	1.000 0.000	REDD RANCHES PARADOX CO 81429
05-869	Underground	<u>well info</u>	P	19720622 DIS	0.050 0.000	SANDRA WHARTON S1725 W200 NE 10 29S

	24E SL					P.O. BOX 73
05-873	Underground	well info	P	19720828 DIS	0.090 0.000	REDD RANCHES
	S30 E2590 W4 11 29S 24E SL					PARADOX CO 81429
05-959	Underground	well info	P	19310000 DIS	0.100 0.000	REDD RANCHES
	0 E45 NW 14 29S 24E SL					P.O. BOX 326
05-968	Underground	well info	P	19740225 IS	1.000 541.540	DANNY LYNN BRADSHAW
	N2675 W51 S4 10 29S 24E SL					P.O. BOX 143
05-968	Underground	well info	P	19740225 IS	1.000 541.540	DANNY LYNN BRADSHAW
	N1422 W23 S4 10 29S 24E SL					P.O. BOX 143

[Natural Resources](#) | [Contact](#) | [Disclaimer](#) | [Privacy Policy](#) | [Accessibility Policy](#)

Casing Schematic



Well name:	05-06 Cabot McKenna 1-11	
Operator:	Cabot Oil & Gas Corporation	Project ID:
String type:	Surface	43-037-31846
Location:	San Juan County	

Design parameters:

Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 118 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 300 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 2,728 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 3,100 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 2,715 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 10,800 ft
Next mud weight: 9.500 ppg
Next setting BHP: 5,330 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 3,100 ft
Injection pressure 3,100 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3100	9.625	36.00	J-55	LT&C	3100	3100	8.796	220.7
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1353	2020	1.493	3100	3520	1.14	98	453	4.64 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

Phone: 801-538-5280
FAX: 801-359-3940

Date: May 19,2006
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 3100 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

05-06 Cabot McKenna 1-11Operator: **Cabot Oil & Gas Corporation**String type: **Production**

Project ID:

43-037-31846

Location: **San Juan County****Design parameters:****Collapse**Mud weight: 9.500 ppg
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 226 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: 2,548 ft

BurstMax anticipated surface
pressure: 1,589 psi
Internal gradient: 0.346 psi/ft
Calculated BHP 5,330 psi

No backup mud specified.

Tension:8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 9,244 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	10800	5.5	17.00	P-110	LT&C	10800	10800	4.767	372.2
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5330	7480	1.403	5330	10640	2.00	157	445	2.83 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & MiningPhone: 801-538-5280
FAX: 801-359-3940Date: May 19, 2006
Salt Lake City, Utah**Remarks:**

Collapse is based on a vertical depth of 10800 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

April 17, 2006

William A Ryan, Agent
290 S 800 E
Vernal, UT 84078
435-789-0968

Utah Division of Oil, Gas and Mining
1549 West North Temple, Suite 1210
Salt Lake City, UT 84114

RE: Cabot Oil and Gas
McKenna 1-11
Sec. 11, T29S, R24E

Dear Sir or Madam,

Cabot Oil and Gas respectfully requests a spacing exception for the subject location. The well has been moved from the center of the forty-acre spacing.

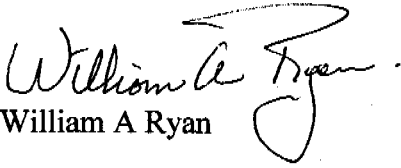
The well is located at 2,482' FNL & 2,220' FWL, which has changed from the proposed location at 1980' FNL & 1980' FWL.

The location was moved due to pivots and fences on private land and drainage considerations. Please see the attached maps.

Cabot Oil and Gas is the only lease owner within a 460' radius.

If you have additional questions, please feel free to call.

Sincerely,


William A Ryan

RECEIVED

APR 19 2006

DIV. OF OIL, GAS & MINING

From: Robert Clark
To: Whitney, Diana
Date: 4/26/2006 1:42:22 PM
Subject: RDCC short turn around responses

The following comments are submitted in response to **RDCC #6499, RDCC #6504 and RDCC #6505.**

RDCC #6499, Comments begin: The proposed Cabot Oil & Gas Corporation McKenna 1-11 well drilling project, in San Juan County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit is not required, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm.
Comments end.

RDCC# 6504, Comments begin: The proposed Berry Petroleum Company Taylor Fee 7-14-56 well drilling project, in Duchesne County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit is not required, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm.
Comments end.

RDCC# 6505, Comments begin: The proposed Slate River Resources, LLC Utah Oil Association 1221-311 well drilling project, in Uintah County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit is not required, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm.
Comments end.

Robert Clark Division of Air Quality 536-4435

CC: McNeill, Dave; Wright, Carolyn



State of Utah

**Department of
Natural Resources**

MICHAEL R. STYLER
Executive Director

**Division of
Oil, Gas & Mining**

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

June 7, 2006

Cabot Oil & Gas Corporation
600 17th St., Ste 900N
Denver, CO 80202

Re: McKenna 1-11 Well, 2482' FNL, 2220' FWL, SE NW, Sec. 11, T. 29 South,
R. 24 East, San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-31846.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt
Associate Director

pab
Enclosures

cc: San Juan County Assessor

Operator: Cabot Oil & Gas Corporation
Well Name & Number McKenna 1-11
API Number: 43-037-31846
Lease: Fee

Location: SE NW Sec. 11 T. 29 South R. 24 East

Conditions of Approval

1. **General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. **Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. **Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. **Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)**

5. **Operator shall comply with applicable recommendations resulting from Resource Development Coordinating Committee review. Statements attached.**

Page 2

43-037-31846

June 7, 2006

6. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NUMBER:

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

NA

7. UNIT or CA AGREEMENT NAME:

NA

8. WELL NAME and NUMBER:

McKenna 1-11

9. API NUMBER:

4303731846

10. FIELD AND POOL, OR WILDCAT:

Paradox

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

NAME OF OPERATOR:

Dabot Oil & Gas

ADDRESS OF OPERATOR:

100 17th St. Suite 900 N. CITY Denver

STATE CO ZIP 80202

PHONE NUMBER:

(303) 868-6612

LOCATION OF WELL

FOOTAGES AT SURFACE: 2,482' FNL & 2,220' FWL

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 11 29S 24E

STATE:

UTAH

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ NOTICE OF INTENT
(Submit in Duplicate)

Approximate date work will start:

☒ SUBSEQUENT REPORT
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

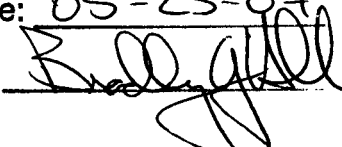
☐ WATER SHUT-OFF

☐ OTHER:

DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Operator respectfully requests to extend approval for the subject location for one year.

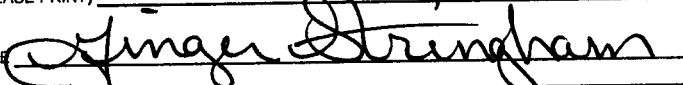
Approved by the
Utah Division of
Oil, Gas and Mining

Date: 05-23-07
By: 

5:24 PM

NAME (PLEASE PRINT) Ginger Stringham

TITLE Agent

SIGNATURE 

DATE 5/22/2007

space for State use only)

RECEIVED

MAY 23 2007

DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 4303731846
Well Name: McKenna 1-11
Location: Section 11 Township 29S Range 24E SENW
Company Permit Issued to: Cabot Oil & Gas
Date Original Permit Issued: 6/7/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

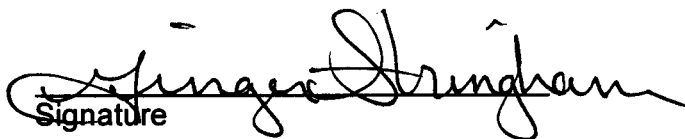
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

5/22/2007

Date

Title: Agent

Representing: Cabot Oil & Gas

RECEIVED

MAY 23 2007

DIV. OF OIL, GAS & MINING



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 23, 2008

Cabot Oil & Gas
600 17th St. Ste. 900 N
Denver, CO 80202

Re: APD Rescinded – McKenna 1-11 Sec. 11, T.29S, R. 24E
San Juan County, Utah API No. 43-037-31846

Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on June 7, 2006. On May 23, 2007, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective July 23, 2008.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject locations.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason
Environmental Scientist

cc: Well File
Brad Hill, Technical Services Manager